



October 11, 2010

Ms. Jaclynne Drummond
Solid Waste Section - Compliance
Division of Waste Management
North Carolina Department of Environment and Natural Resources
401 Oberlin Road, Suite 150
Raleigh, NC 27605

Re: Potentially Impacted Soil and Groundwater Assessment Report
Wayne County C&D Landfill on top of Closed MSWLF
Permit No. 96-01
MESCO Project Number: G10114

Ms. Drummond:

Municipal Engineering Services Co., P.A. (MESCO), on behalf of Wayne County, appreciates the opportunity to present this *Potentially Impacted Soil and Groundwater Assessment Report* (report) that presents soil, groundwater and surface water results acquired during a limited assessment performed September 16 & 17, 2010. This assessment was prepared in response to a compliance order received June 21, 2010 from The North Carolina Department of Environment and Natural Resources (NCDENR), Solid Waste Section (SWS) regarding potentially impacted soils, groundwater and surface water associated with a breakout reported in a Facility Compliance Audit Report performed by Mr. Wes Hare on March 18, 2010 at the Wayne County Municipal Solid Waste Landfill Facility (MSWLF), located in Dudley, NC. The sampling was performed in general accordance with MESCO's proposed assessment plan approved with conditions by the SWS on September 9, 2010.

BACKGROUND AND OBJECTIVE

On March 18, 2010, as part of a comprehensive field audit, Mr. Hare reported: "Untreated leachate was flowing from the working face and entering a drainage ditch in the low area North of the C&DLF. Several leachate break-outs were noted along the Western slope. Another large break-out was found on the Southwest corner of the landfill. A collection pipe had been installed and periodically pumped to prevent releases, however, it was full and leachate was flowing down and along the Southern slope."

MESCO's assessment plan included analyzing groundwater samples collected from MW-2, MW-3, MW-5 and MW-7, surface water samples obtained from SW-1, SW-2 and the feature near MW-3 and soil samples for Appendix I of 40 CFR. The assessment was approved on September 9, 2010 with the following conditions:

- Soils samples should be analyzed for Nitrate-Nitrite, Phosphorous, Sulfate, Percent Solids, and pH in addition to the aforementioned parameters.
- Compare soil sampling to NCDENR *Inactive Hazardous Sites Branch Remediation Goals October 2009*.

- Groundwater and surface water samples should be analyzed for Nitrate-Nitrite, Phosphorus, BOD, COD, Sulfate, and Total Suspended Solids (TSS) in addition to the aforementioned parameters.
- Collect field parameters for groundwater and surface water samples.

SERVICES PERFORMED

Identify Potentially Impacted Soil

As proposed in the assessment, confirmation soil samples were collected from the northern, western and southern slope areas. Soil samples were collected using a stainless-steel hand auger and field screened with a photo-ionization detector (PID) to measure volatile organic compound (VOC) vapors. Boring sample locations were reported in feet below the ground surface (bgs); PID readings were recorded for each sample. Sample boring locations were determined in the field by the environmental professional based on pre-designed locations, breakout observations, localized topography, visual and/or potential storm water flow paths, and PID readings.

According to the Facility Compliance Audit Report issued by Mr. Hare, there were three areas of concern: “the low area North of the C&DLF”, “the Western slope”, and “the Southwest corner of the landfill”. Initial background soil samples were collected with a stainless-steel hand auger to establish a comparison baseline PID reading. In general, hand auger borings were advanced to approximately four feet bgs before encountering debris, water or, refusal due to soil density. Samples were collected at approximately one foot bgs, two feet bgs, and four feet bgs. Collected samples were placed in sealable plastic bags and allowed to volatize for approximately 15-20 minutes. PID levels were recorded and the samples with the highest PID readings were submitted for laboratory analysis.

A location up-gradient of MW-3, positioned approximately halfway between MW-3 and MW-4, was selected to serve as the background location. One sample, HA-BG, was submitted for laboratory analysis.

In the area north of the C&D landfill, near MW-3, hand auger borings were proposed approximately 25 feet and 50 feet from MW-3 to the north, east and west; as well as immediately adjacent to the well. Samples to the east of the well (HA-4 and HA-5) had PID readings elevated above the background sample. Additional borings (HA-8 and HA-9) were advanced to determine the elevated PID extent. HA-4 was submitted to the lab for further analysis and was inadvertently renamed HA-2 on the laboratory Chain of Custody form.

Along the western slope, soil samples collected from multiple hand auger borings were subjected to field PID analysis. Sample boring locations were proposed approximately 50 feet and 100 feet north of MW-7 along the western slope, followed by additional borings every 250 feet until reaching MW-5. One sample had PID readings slightly elevated above the background level. Based on field observations, and lack of elevated PID readings in adjacent samples, it was determined additional samples were unnecessary in this area. HA-20 was selected for laboratory analysis.

Along the southern slope, including the southwestern corner, soil samples were collected from multiple hand auger borings and subjected to field PID analysis. Four sample boring locations were proposed approximately 10 feet, 25 feet and 50 feet east of MW-7 along the southern slope, as well as adjacent to MW-7. Two additional borings were sampled at 100 foot spacing along the southern slope. Samples adjacent to and near MW-7 did not read elevated PID levels. The first 100-foot spaced boring, HA-14, had PID readings equivalent with background levels; the second 100-foot spacing, HA-15, was elevated. Three additional borings were sampled at ten-foot intervals from HA-15 until the background PID level was not exceeded. HA-15 was selected for laboratory analysis. HA-10, also sent for laboratory analysis, was inadvertently renamed HA-1 on the Chain-of-Custody form.

Hand auger boring locations are depicted on **Plate 1**. **Table 1** shows the depth vs. field PID reading for hand auger boring locations.

As requested, soil samples were submitted to a State of North Carolina-certified analytical laboratory (Environmental Conservation Laboratories (ENCO), Cary, NC) and analyzed for:

- VOCs via EPA Test Method 8260B
- Metals via EPA Test Methods 6010C
- Nitrate-nitrite, and sulfate via EPA Test Method 9056
- pH via EPA Test Method 9045D
- Phosphorus via EPA Test Method 365.4

In accordance with directions from SWS representatives, sample results were compared to the *Inactive Hazardous Sites Branch Remediation Goals October 2009*. Soil sample results are presented on **Table 3**.

Identify Potentially Impacted Groundwater-Surface Water

Groundwater samples were collected from monitoring wells MW-2, MW-3, MW-5 and MW-7 a surface water sample was collected from SW-1. Surface water location SW-2 and the surface water feature near MW-3, north of the C&D landfill were dry; therefore samples were not collected. Groundwater and surface water sampling was conducted in accordance with the procedures outlined in the facility's Sampling and Analysis Plan. Field parameter data is provided on **Table 2**.

Groundwater and surface water samples were submitted to ENCO for analysis of:

- VOCs via EPA Test Method 8260B
- Metals via EPA Test Methods 6010C
- Nitrate-nitrite via EPA Test Method 353.2
- Sulfate via EPA Test Method 300.0
- Phosphorous via EPA Test Method 365.4
- BOD via EPA Test Method SM 5210B
- COD via EPA Test Method SM 5220D
- TSS via EPA Test Method SM 2540D

Laboratory Results and Findings

Four hand auger boring samples and one background soil sample were collected and sent to the lab for further analysis. Soil sample analytical results are presented in a soil detection summary as **Table 3**. Only phosphorous was detected above the Soil Remediation Goal (SRG), established by the Inactive Hazardous Site Branch, October 2009. Sulfate and pH did not have listed SRG levels.

Groundwater samples were collected from four monitoring wells and one surface water location. Water sample analytical results are presented in **Table 4** and **Table 5**, summarizing metals detections and VOC and chemical detections respectively. Arsenic, chromium and lead were detected above their respective North Carolina Groundwater Standard, as promulgated in 15A NCAC 2L (2L Standard). In the Assessment of Corrective Measures Report (ACM), approved November 1, 2007, these three metals were included in a list of twelve metals reported as naturally occurring at elevated levels in this area and are not representative of landfill contamination. Benzene, in MW-2, was the only VOC detected above its respective 2L standard. MW-2 is included among the assessment wells as part of the Corrective Action

Plan, approved October 23, 2009. The level of Benzene detected in MW-2 is slightly lower than levels recorded during the most recent semi-annual sampling event, conducted in August 2010. **Table 6** shows groundwater and surface water results collected from this event compared to semi-annual sampling data collected in August 2010.

Based on the presented sample results it is our opinion that detections cannot be specifically attributed to the reported breakout. No additional actions are necessary. The site will continue to have groundwater and surface water monitoring performed on a semi-annual basis in accordance with Wayne County Sampling and Analysis Plan and Corrective Action Plan.

[Please note laboratory sample HA-1 was collected from HA-10, on the southern slope and laboratory sample HA-2 was collected from HA-4 on the northern slope.]

CLOSING

This report summary meets the requirements for the Compliance Order from the Solid Waste Section. All data, information and conclusions contained herein indicate no hindrance to the current operations and procedures of the landfill.

Municipal Engineering Services Co., P.A., on behalf of Wayne County, appreciates the opportunity to submit this brief report to the Solid Waste Section. Please contact us at (919) 772-5393, mgerman@mesco.com or mbrown@mesco.com if you have any questions or comments regarding this report.

Sincerely,

MUNICIPAL ENGINEERING SERVICES CO., P.A.



Madeline German
Geoscientist

Enclosures

cc: Tim Rogers, Wayne County
Wayne Sullivan, MESCO



Mark Brown, LG, PG
Sr. Professional Geologist

Plates

LEGEND

— — — —	EXISTING CONTOURS
— — — —	PROPERTY LINE
— — — —	EXISTING UNPAVED ROAD
— — — —	EXISTING CREEK, STREAM, ETC.
— — — —	EXISTING DIVERSION DITCHES
— — — —	CLOSED MSWLF SANITARY UNIT
P3-17	PIEZOMETER LOCATION
MW5	MONITORING WELLS C&D LANDFILL
MW-1	MONITORING WELLS SUBTITLE D
P1-3	ABANDONED PIEZOMETER
SW-5	SURFACE WATER SAMPLING SUBTITLE D
SW-1	SURFACE WATER SAMPLING C&D
	WETLANDS
HA-1	PROPOSED HAND AUGER BORING

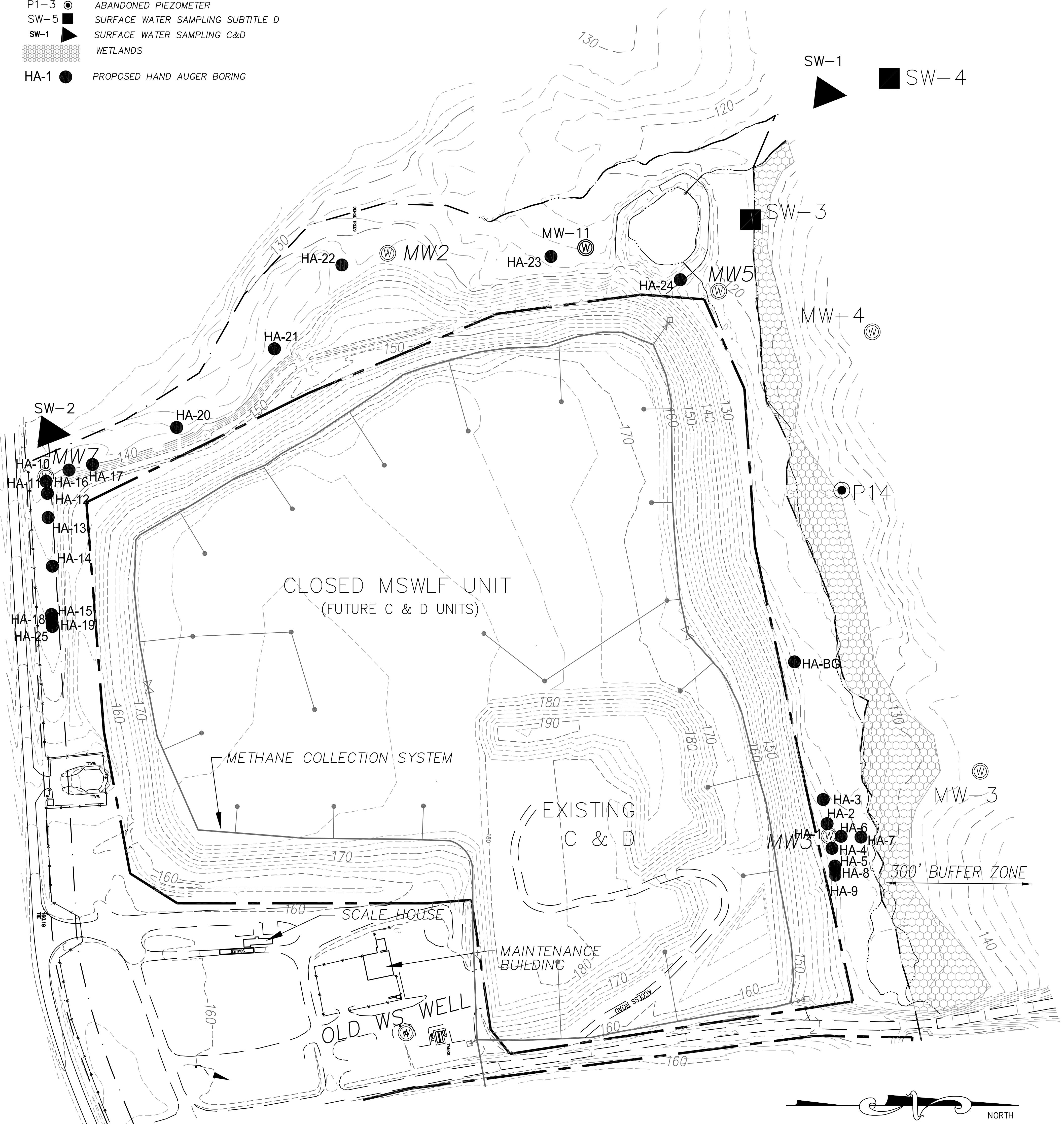


PLATE 1

SCALE	DATE	BY	REV.	DESCRIPTION
1" = 100'	10/06/2010			

HAND AUGER BORING LOCATIONS

MUNICIPAL SOLID WASTE
LANDFILL FACILITY
WAYNE COUNTY
NORTH CAROLINA

LICENSE NUMBER: C-0281
Municipal Engineering
Services Company, P.A.
P.O. BOX 97 GARNER, N.C. 27529
(919) 772-5393
P.O. BOX 828 MOREHEAD CITY, N.C. 28557
(252) 726-9481

DRAWING NO.	PLATE NO.	PROJECT NUMBER	HEET NO.
G1014.0	1	1 OF 1	

Tables

Table 1: Field PID Soil Measurement

Sample ID	PID Reading (PPM)			General Location	Brief Soil Description
	1 ft	2 ft	4 ft		
Background					
HA-BG*	0.4	2	0.3	Between MW-3 and MW-4	Light brown silty sand
North Slope					
HA-1	0.5	0.8	0.9	Adjacent to MW-3	Very loose, light brown sand
HA-2	0.0	0.0	0.1	~25' W MW-3	Loose, light orange brown sand
HA-3	0.0	0.0	0.0	~50' W MW-3	Grey brown, very loose, sand
HA-4*	34.9	7.9	3.2	~25' E MW-3 (in overgrowth)	Light brown, loose sand
HA-5	5.9	6.2	0.2	~50' E MW-3 (in overgrowth)	Medium dark brown sand
HA-6	0.1	0.0	R	~25' N MW-3 (just off road)	Rocky, light brown sand
HA-7	0.1	0.0	R	~50' N MW-3	Light brown sandy clay
HA-8	14.4	6.2	0.8	~10' past HA-5	Dark brown sand
HA-9	0.4	0.4	0.1	~20' past HA-5	Medium dark brown sand, loose
West Slope					
HA-16	1.6	7.7	6.6	~25' N MW-7	Light brown sand
HA-17	1.2	1.6	0.9	~100' N MW-7	Light brown sand
HA-20*	2.7	0.8	R	1 st 250' space (off access road)	Competent grey clay
HA-21	0.3	0.4	0.8	2 nd 250' space (off access road)	Medium orange sand
HA-22	0.6	0.8	0.4	3 rd 250' space (MW-2 area)	Dark brown sandy silt
HA-23	0.6	0.6	R	4 th 250' space (MW-11 area)	Medium orange sandy silt
HA-24	0.5	0.5	0.6	5 th 250' space (MW-5 area)	Coarse grained, light brown sand
South Slope					
HA-10*	0.3	0.1	0.1	Adjacent to MW-7	Loose light grey brown sand
HA-11	0.2	0.2	0.2	~10' E MW-7	Orange brown sand
HA-12	0.3	0.4	0.2	~25' E MW-7	Orange brown sand
HA-13	0.2	0.4	0.5	~50' E MW-7	Light orange sand
HA-14	2.1	0.4	0.5	~100' E MW-7	Light grey sand
HA-15*	11.4	0.6	0.4	~200' E MW-7	Light grey sandy silt
HA-18	2.9	0.9	0.7	~10' past HA-15	Light grey sand
HA-19	4.2	2.8	0.6	~25' past HA-15	Light grey sand
HA-25	1.9	0.5	0.3	~35' past HA-15	Light grey sand

NOTES:

1. Mini Rae PID calibrated at 100ppm Isobutylene
2. * indicate samples sent for lab analysis
3. Sampling Depth recorded in feet
4. R: indicates hand auger refusal

Table 2: Field Parameters

Monitoring Point	Sample Date	Sample Time	Depth to Water (BTOP) Static	pH	Temp. °C	Specific Cond. (us/cm)	Turbidity
MW-2	9/16/2010	3:35	7.74	6.56	21.3	1260	C
MW-3	9/16/2010	12:10	6.40	5.97	23.5	435	ST
MW-5	9/16/2010	1:08	13.92	5.28	24.9	46	ST
MW-7	9/16/2010	4:50	10.80	5.66	22.3	81	ST
SW-1	9/16/2010	2:12	-	7.55	23.9	1306	T
SW-2	-	-	DRY	-	-	-	-
SW near MW-	-	-	DRY	-	-	-	-

NOTES:

1. C: Clear
2. ST: Slightly Turbid
3. T: Turbid

Table - 3: Soil Detection Summary

WELL ID	RESULT	UNITS	PARAMETER	SRG*	CAS Number	COLLECTION DATE
HA-15	0.006	mg/kg dry	2-Butanone	5600	78-93-3	09/17/2010
HA-15	0.74	mg/kg dry	Acetone	12000	67-64-1	09/17/2010
HA-20	0.55	mg/kg dry	Acetone	12000	67-64-1	09/17/2010
HA-1	1.9	mg/kg dry	Nitrate as N	26000	SW303	09/16/2010
HA-15	3.5	mg/kg dry	Nitrate as N	26000	SW303	09/17/2010
HA-1	1.9	mg/kg dry	Nitrate/Nitrite as N	1600	NE	09/16/2010
HA-15	4.2	mg/kg dry	Nitrate/Nitrite as N	1600	NE	09/17/2010
HA-15	0.73	mg/kg dry	Nitrite as N	1600	SW304	09/17/2010
HA-BG	6.9	pH Units	pH	NE	NE	09/16/2010
HA-1	6.6	pH Units	pH	NE	NE	09/16/2010
HA-2	6.4	pH Units	pH	NE	NE	09/16/2010
HA-15	5.6	pH Units	pH	NE	NE	09/17/2010
HA-20	5.6	pH Units	pH	NE	NE	09/17/2010
HA-BG	88	mg/kg dry	Phosphorus	32	7723-14-0	09/16/2010
HA-1	170	mg/kg dry	Phosphorus	32	7723-14-0	09/16/2010
HA-2	69	mg/kg dry	Phosphorus	32	7723-14-0	09/16/2010
HA-15	100	mg/kg dry	Phosphorus	32	7723-14-0	09/17/2010
HA-20	71	mg/kg dry	Phosphorus	32	7723-14-0	09/17/2010
HA-BG	19	mg/kg dry	Sulfate as SO4	NE	14808-79-8	09/16/2010
HA-1	21	mg/kg dry	Sulfate as SO4	NE	14808-79-8	09/16/2010
HA-2	23	mg/kg dry	Sulfate as SO4	NE	14808-79-8	09/16/2010
HA-BG	1.19	mg/kg dry	Arsenic Total	4.4	7440-38-2	09/16/2010
HA-1	1.36	mg/kg dry	Arsenic Total	4.4	7440-38-2	09/16/2010
HA-2	1.30	mg/kg dry	Arsenic Total	4.4	7440-38-2	09/16/2010
HA-15	0.336	mg/kg dry	Arsenic Total	4.4	7440-38-2	09/17/2010
HA-20	1.91	mg/kg dry	Arsenic Total	4.4	7440-38-2	09/17/2010
HA-BG	10.1	mg/kg dry	Barium Total	3000	7440-39-3	09/16/2010
HA-1	7.29	mg/kg dry	Barium Total	3000	7440-39-3	09/16/2010
HA-2	7.21	mg/kg dry	Barium Total	3000	7440-39-3	09/16/2010
HA-15	3.59	mg/kg dry	Barium Total	3000	7440-39-3	09/17/2010
HA-20	7.06	mg/kg dry	Barium Total	3000	7440-39-3	09/17/2010
HA-15	0.0129	mg/kg dry	Cadmium Total	14	7440-43-9	09/17/2010
HA-BG	4.39	mg/kg dry	Chromium Total	280	7440-47-3	09/16/2010
HA-1	7.28	mg/kg dry	Chromium Total	280	7440-47-3	09/16/2010
HA-2	4.30	mg/kg dry	Chromium Total	280	7440-47-3	09/16/2010
HA-15	1.47	mg/kg dry	Chromium Total	280	7440-47-3	09/17/2010
HA-20	8.20	mg/kg dry	Chromium Total	280	7440-47-3	09/17/2010
HA-BG	0.354	mg/kg dry	Cobalt Total	4.6	7440-48-4	09/16/2010
HA-1	0.176	mg/kg dry	Cobalt Total	4.6	7440-48-4	09/16/2010
HA-2	0.537	mg/kg dry	Cobalt Total	4.6	7440-48-4	09/16/2010
HA-15	0.113	mg/kg dry	Cobalt Total	4.6	7440-48-4	09/17/2010
HA-20	0.302	mg/kg dry	Cobalt Total	4.6	7440-48-4	09/17/2010

Table - 3: Soil Detection Summary

WELL ID	RESULT	UNITS	PARAMETER	SRG*	CAS Number	COLLECTION DATE
HA-BG	1.14	mg/kg dry	Copper Total	630	7440-50-8	09/16/2010
HA-1	1.22	mg/kg dry	Copper Total	630	7440-50-8	09/16/2010
HA-2	1.59	mg/kg dry	Copper Total	630	7440-50-8	09/16/2010
HA-15	0.628	mg/kg dry	Copper Total	630	7440-50-8	09/17/2010
HA-20	1.17	mg/kg dry	Copper Total	630	7440-50-8	09/17/2010
HA-BG	6.56	mg/kg dry	Lead Total	400	7439-92-1	09/16/2010
HA-1	4.44	mg/kg dry	Lead Total	400	7439-92-1	09/16/2010
HA-2	4.07	mg/kg dry	Lead Total	400	7439-92-1	09/16/2010
HA-15	2.48	mg/kg dry	Lead Total	400	7439-92-1	09/17/2010
HA-20	4.97	mg/kg dry	Lead Total	400	7439-92-1	09/17/2010
HA-BG	0.770	mg/kg dry	Nickel Total	300	7440-02-0	09/16/2010
HA-1	0.533	mg/kg dry	Nickel Total	300	7440-02-0	09/16/2010
HA-2	0.682	mg/kg dry	Nickel Total	300	7440-02-0	09/16/2010
HA-15	0.398	mg/kg dry	Nickel Total	300	7440-02-0	09/17/2010
HA-20	0.657	mg/kg dry	Nickel Total	300	7440-02-0	09/17/2010
HA-BG	0.386	mg/kg dry	Selenium Total	78	7782-49-2	09/16/2010
HA-1	0.123	mg/kg dry	Selenium Total	78	7782-49-2	09/16/2010
HA-2	0.367	mg/kg dry	Selenium Total	78	7782-49-2	09/16/2010
HA-20	0.509	mg/kg dry	Selenium Total	78	7782-49-2	09/17/2010
HA-BG	0.535	mg/kg dry	Thallium Total	1	7440-28-0	09/16/2010
HA-1	0.278	mg/kg dry	Thallium Total	1	7440-28-0	09/16/2010
HA-2	0.390	mg/kg dry	Thallium Total	1	7440-28-0	09/16/2010
HA-15	0.200	mg/kg dry	Thallium Total	1	7440-28-0	09/17/2010
HA-20	0.462	mg/kg dry	Thallium Total	1	7440-28-0	09/17/2010
HA-BG	8.10	mg/kg dry	Vanadium Total	110	7440-62-2	09/16/2010
HA-1	6.65	mg/kg dry	Vanadium Total	110	7440-62-2	09/16/2010
HA-2	8.60	mg/kg dry	Vanadium Total	110	7440-62-2	09/16/2010
HA-15	1.82	mg/kg dry	Vanadium Total	110	7440-62-2	09/17/2010
HA-20	15.2	mg/kg dry	Vanadium Total	110	7440-62-2	09/17/2010
HA-BG	4.61	mg/kg dry	Zinc Total	4600	7440-66-6	09/16/2010
HA-1	3.58	mg/kg dry	Zinc Total	4600	7440-66-6	09/16/2010
HA-2	7.25	mg/kg dry	Zinc Total	4600	7440-66-6	09/16/2010
HA-15	1.48	mg/kg dry	Zinc Total	4600	7440-66-6	09/17/2010
HA-20	2.82	mg/kg dry	Zinc Total	4600	7440-66-6	09/17/2010

NOTES:

* SRG = Soil Remediation Goal from the Inactive Hazardous Sites Branch, October 2009 Guidance Document

1. Results presented in milligrams per kilogram (mg/kg)

2. NE: Not established

Table 4: VOC and Chemical Detection Summary

WELL ID	RESULT	UNITS	PARAMETER	2L Standard	SWSL	CAS Number	COLLECTION DATE
MW-2	0.52	ug/L	1,2-Dichlorobenzene	20	5	95-50-1	09/16/2010
MW-2	4.0	ug/L	1,4-Dichlorobenzene	6	1	106-46-7	09/16/2010
MW-2	4.0	ug/L	Acetone	6000	100	67-64-1	09/16/2010
SW-1	8.4	ug/L	Acetone	6000	100	67-64-1	09/16/2010
MW-2	1.8	ug/L	Benzene	1	1	71-43-2	09/16/2010
SW-1	19000	ug/L	Biochemical Oxygen Demand	NE	NE	SW316	09/16/2010
MW-2	72000	ug/L	Chemical Oxygen Demand	NE	NE	SW317	09/16/2010
MW-3	27000	ug/L	Chemical Oxygen Demand	NE	NE	SW317	09/16/2010
MW-5	14000	ug/L	Chemical Oxygen Demand	NE	NE	SW317	09/16/2010
MW-7	40000	ug/L	Chemical Oxygen Demand	NE	NE	SW317	09/16/2010
SW-1	140000	ug/L	Chemical Oxygen Demand	NE	NE	SW317	09/16/2010
MW-2	17	ug/L	Chlorobenzene	50	3	108-90-7	09/16/2010
MW-2	88	ug/L	Nitrate as N	NE	10000	SW303	09/16/2010
MW-3	200	ug/L	Nitrate as N	NE	10000	SW303	09/16/2010
MW-5	480	ug/L	Nitrate as N	NE	10000	SW303	09/16/2010
MW-7	2900	ug/L	Nitrate as N	NE	10000	SW303	09/16/2010
SW-1	88	ug/L	Nitrate as N	NE	10000	SW303	09/16/2010
MW-2	88	ug/L	Nitrate/Nitrite as N	NE	NE	NE	09/16/2010
MW-3	200	ug/L	Nitrate/Nitrite as N	NE	NE	NE	09/16/2010
MW-5	480	ug/L	Nitrate/Nitrite as N	NE	NE	NE	09/16/2010
MW-7	2900	ug/L	Nitrate/Nitrite as N	NE	NE	NE	09/16/2010
SW-1	120	ug/L	Nitrate/Nitrite as N	NE	NE	NE	09/16/2010
SW-1	33	ug/L	Nitrite as N	NE	1000	SW304	09/16/2010
MW-3	50	ug/L	Phosphorus	NE	NE	7723-14-0	09/16/2010
MW-5	280	ug/L	Phosphorus	NE	NE	7723-14-0	09/16/2010
MW-7	410	ug/L	Phosphorus	NE	NE	7723-14-0	09/16/2010
SW-1	130	ug/L	Phosphorus	NE	NE	7723-14-0	09/16/2010
MW-2	10000	ug/L	Sulfate as SO4	250000	250000	14808-79-8	09/16/2010
MW-3	10000	ug/L	Sulfate as SO4	250000	250000	14808-79-8	09/16/2010
MW-5	1700	ug/L	Sulfate as SO4	250000	250000	14808-79-8	09/16/2010
MW-7	6500	ug/L	Sulfate as SO4	250000	250000	14808-79-8	09/16/2010
SW-1	3500	ug/L	Sulfate as SO4	250000	250000	14808-79-8	09/16/2010
MW-2	130000	ug/L	Total Suspended Solids	NE	NE	SW343	09/16/2010
MW-3	350000	ug/L	Total Suspended Solids	NE	NE	SW343	09/16/2010
MW-5	450000	ug/L	Total Suspended Solids	NE	NE	SW343	09/16/2010
MW-7	630000	ug/L	Total Suspended Solids	NE	NE	SW343	09/16/2010
SW-1	220000	ug/L	Total Suspended Solids	NE	NE	SW343	09/16/2010

NOTES:

1. Results presented in micrograms per liter (ug/l)

2. NE: Not Established

Table 5: Metals Detection Summary

WELL ID	RESULT	UNITS	PARAMETER	2L Standard	SWSL	CAS Number	COLLECTION DATE
MW-2	0.336	ug/L	Antimony Total	NE	6	7440-36-0	09/16/2010
MW-2	49.0	ug/L	Arsenic Total	10	10	7440-38-2	09/16/2010
MW-3	31.9	ug/L	Arsenic Total	10	10	7440-38-2	09/16/2010
MW-5	7.64	ug/L	Arsenic Total	10	10	7440-38-2	09/16/2010
MW-7	27.9	ug/L	Arsenic Total	10	10	7440-38-2	09/16/2010
SW-1	5.87	ug/L	Arsenic Total	10	10	7440-38-2	09/16/2010
MW-2	170	ug/L	Barium Total	100	100	7440-39-3	09/16/2010
MW-3	70.0	ug/L	Barium Total	100	100	7440-39-3	09/16/2010
MW-5	62.7	ug/L	Barium Total	100	100	7440-39-3	09/16/2010
MW-7	55.2	ug/L	Barium Total	100	100	7440-39-3	09/16/2010
SW-1	175	ug/L	Barium Total	100	100	7440-39-3	09/16/2010
MW-3	0.638	ug/L	Beryllium Total	NE	1	7440-41-7	09/16/2010
MW-5	0.425	ug/L	Beryllium Total	NE	1	7440-41-7	09/16/2010
MW-7	0.327	ug/L	Beryllium Total	NE	1	7440-41-7	09/16/2010
MW-2	0.795	ug/L	Cadmium Total	2	1	7440-43-9	09/16/2010
MW-3	31.6	ug/L	Chromium Total	10	10	7440-47-3	09/16/2010
MW-5	15.0	ug/L	Chromium Total	10	10	7440-47-3	09/16/2010
MW-7	50.0	ug/L	Chromium Total	10	10	7440-47-3	09/16/2010
SW-1	3.80	ug/L	Chromium Total	10	10	7440-47-3	09/16/2010
MW-2	1.16	ug/L	Cobalt Total	NE	10	7440-48-4	09/16/2010
MW-3	5.16	ug/L	Cobalt Total	NE	10	7440-48-4	09/16/2010
MW-5	1.11	ug/L	Cobalt Total	NE	10	7440-48-4	09/16/2010
MW-7	1.27	ug/L	Cobalt Total	NE	10	7440-48-4	09/16/2010
SW-1	1.29	ug/L	Cobalt Total	NE	10	7440-48-4	09/16/2010
MW-3	11.3	ug/L	Copper Total	1000	10	7440-50-8	09/16/2010
MW-5	2.45	ug/L	Copper Total	1000	10	7440-50-8	09/16/2010
MW-7	5.98	ug/L	Copper Total	1000	10	7440-50-8	09/16/2010
MW-3	19.1	ug/L	Lead Total	15	10	7439-92-1	09/16/2010
MW-5	7.10	ug/L	Lead Total	15	10	7439-92-1	09/16/2010
MW-7	21.6	ug/L	Lead Total	15	10	7439-92-1	09/16/2010
MW-3	4.98	ug/L	Nickel Total	100	50	7440-02-0	09/16/2010
MW-2	2.94	ug/L	Selenium Total	20	10	7782-49-2	09/16/2010
MW-3	1.51	ug/L	Selenium Total	20	10	7782-49-2	09/16/2010
SW-1	3.96	ug/L	Selenium Total	20	10	7782-49-2	09/16/2010
MW-3	0.342	ug/L	Thallium Total	NE	5.5	7440-28-0	09/16/2010
MW-2	7.44	ug/L	Vanadium Total	NE	25	7440-62-2	09/16/2010
MW-3	37.9	ug/L	Vanadium Total	NE	25	7440-62-2	09/16/2010
MW-5	20.0	ug/L	Vanadium Total	NE	25	7440-62-2	09/16/2010
MW-7	158	ug/L	Vanadium Total	NE	25	7440-62-2	09/16/2010
MW-2	11.0	ug/L	Zinc Total	1000	10	7440-66-6	09/16/2010
MW-3	33.2	ug/L	Zinc Total	1000	10	7440-66-6	09/16/2010
MW-5	13.2	ug/L	Zinc Total	1000	10	7440-66-6	09/16/2010
MW-7	18.6	ug/L	Zinc Total	1000	10	7440-66-6	09/16/2010

NOTES:

1. Results presented in micrograms per liter (ug/l)
2. NE: Not Established

Table 6: Ground and Surface Water Comparison to Recent Semi-Annual Results

WELL ID	RESULTS		UNITS	PARAMETER	2L Standard	SWSL
	8/12/2010	9/16/2010				
MW-2	0.47	0.52	ug/L	1,2-Dichlorobenzene	20	5
MW-2	0.31	-	ug/L	1,3-Dichlorobenzene	200	5
MW-2	3.6	4.0	ug/L	1,4-Dichlorobenzene	6	1
MW-2	2.3	4.0	ug/L	Acetone	6000	100
MW-5	3.7	-	ug/L	Acetone	6000	100
SW-1	-	8.4	ug/L	Acetone	6000	100
MW-2	-	0.336	ug/L	Antimony	NE	6
MW-2	24.2	49.0	ug/L	Arsenic	10	10
MW-3	-	31.9	ug/L	Arsenic	10	10
MW-5	-	7.64	ug/L	Arsenic	10	10
MW-7	-	27.9	ug/L	Arsenic	10	10
SW-1	-	5.87	ug/L	Arsenic	10	10
MW-2	176	170	ug/L	Barium	100	100
MW-3	21.4	70.0	ug/L	Barium	100	100
MW-5	26.6	62.7	ug/L	Barium	100	100
MW-7	52.4	55.2	ug/L	Barium	100	100
SW-1	-	175	ug/L	Barium	100	100
MW-2	2	1.8	ug/L	Benzene	1	1
MW-3	0.27	0.638	ug/L	Beryllium	NE	1
MW-5	0.46	0.425	ug/L	Beryllium	NE	1
MW-7	-	0.327	ug/L	Beryllium	NE	1
SW-1	-	19000	ug/L	Biochemical Oxygen Demand	NE	NE
MW-2	-	0.795	ug/L	Cadmium	2	1
MW-2	-	72000	ug/L	Chemical Oxygen Demand	NE	NE
MW-3	-	27000	ug/L	Chemical Oxygen Demand	NE	NE
MW-5	-	14000	ug/L	Chemical Oxygen Demand	NE	NE
MW-7	-	40000	ug/L	Chemical Oxygen Demand	NE	NE
SW-1	-	140000	ug/L	Chemical Oxygen Demand	NE	NE
MW-2	67100	-	ug/L	Chloride	NE	NE
MW-5	9600	-	ug/L	Chloride	NE	NE
MW-7	6490	-	ug/L	Chloride	NE	NE
MW-2	15.6	17	ug/L	Chlorobenzene	50	3
MW-2	0.38	-	ug/L	Chloromethane	3	1
MW-3	0.37	-	ug/L	Chloromethane	3	1
MW-7	0.29	-	ug/L	Chloromethane	3	1
MW-2	5.8	-	ug/L	Chromium	10	10
MW-3	1.8	31.6	ug/L	Chromium	10	10
MW-5	1.8	15.0	ug/L	Chromium	10	10
MW-7	0.56	50.0	ug/L	Chromium	10	10
SW-1	-	3.80	ug/L	Chromium	10	10

Table 6: Ground and Surface Water Comparison to Recent Semi-Annual Results

WELL ID	RESULTS		UNITS	PARAMETER	2L Standard	SWSL
	8/12/2010	9/16/2010				
MW-2	44.8	1.16	ug/L	Cobalt	NE	10
MW-3	6	5.16	ug/L	Cobalt	NE	10
MW-5	6.2	1.11	ug/L	Cobalt	NE	10
MW-7	-	1.27	ug/L	Cobalt	NE	10
SW-1	-	1.29	ug/L	Cobalt	NE	10
MW-3	0.45	11.3	ug/L	Copper	1000	10
MW-5	1.2	2.45	ug/L	Copper	1000	10
MW-7	0.72	5.98	ug/L	Copper	1000	10
MW-2	6.9	-	ug/L	Cyanide	70	10
MW-2	216	-	ug/L	Isobutanol	NE	100
MW-3	-	19.1	ug/L	Lead	15	10
MW-5	-	7.10	ug/L	Lead	15	10
MW-7	-	21.6	ug/L	Lead	15	10
MW-3	-	4.98	ug/L	Nickel	100	50
MW-5	2.4	-	ug/L	Nickel	100	50
MW-2	-	88	ug/L	Nitrate as N	-	10000
MW-3	-	200	ug/L	Nitrate as N	-	10000
MW-5	-	480	ug/L	Nitrate as N	-	10000
MW-7	-	2900	ug/L	Nitrate as N	-	10000
SW-1	-	88	ug/L	Nitrate as N	-	10000
MW-2	-	88	ug/L	Nitrate/Nitrite as N	-	NE
MW-3	-	200	ug/L	Nitrate/Nitrite as N	-	NE
MW-5	-	480	ug/L	Nitrate/Nitrite as N	-	NE
MW-7	-	2900	ug/L	Nitrate/Nitrite as N	-	NE
SW-1	-	120	ug/L	Nitrate/Nitrite as N	-	NE
SW-1	-	33	ug/L	Nitrite as N	-	1000
MW-3	-	50	ug/L	Phosphorus	NE	NE
MW-5	-	280	ug/L	Phosphorus	NE	NE
MW-7	-	410	ug/L	Phosphorus	NE	NE
SW-1	-	130	ug/L	Phosphorus	NE	NE
MW-3	-	1.51	ug/L	Selenium	20	10
MW-2	-	2.94	ug/L	Selenium	20	10
SW-1	-	3.96	ug/L	Selenium	20	10
MW-2	0.27	-	ug/L	Silver	20	10
MW-2	-	10000	ug/L	Sulfate as SO4	250000	250000
MW-3	-	10000	ug/L	Sulfate as SO4	250000	250000
MW-5	-	1700	ug/L	Sulfate as SO4	250000	250000
MW-7	-	6500	ug/L	Sulfate as SO4	250000	250000
SW-1	-	3500	ug/L	Sulfate as SO4	250000	250000
MW-3	-	0.342	ug/L	Thallium	NE	5.5
MW-2		1.9	ug/L	Tin	NE	100

Table 6: Ground and Surface Water Comparison to Recent Semi-Annual Results

WELL ID	RESULTS		UNITS	PARAMETER	2L Standard	SWSL
	8/12/2010	9/16/2010				
MW-2	-	130000	ug/L	Total Suspended Solids	NE	NE
MW-3	-	350000	ug/L	Total Suspended Solids	NE	NE
MW-5	-	450000	ug/L	Total Suspended Solids	NE	NE
MW-7	-	630000	ug/L	Total Suspended Solids	NE	NE
SW-1	-	220000	ug/L	Total Suspended Solids	NE	NE
<hr/>						
MW-2	14.4	7.44	ug/L	Vanadium	NE	25
MW-3	40.4	37.9	ug/L	Vanadium	NE	25
MW-5	13.4	20.0	ug/L	Vanadium	NE	25
MW-7	0.91	158	ug/L	Vanadium	NE	25
<hr/>						
MW-2	5.6	11.0	ug/L	Zinc	1000	10
MW-3	6.5	33.2	ug/L	Zinc	1000	10
MW-5	10.4	13.2	ug/L	Zinc	1000	10
MW-7	12.6	18.6	ug/L	Zinc	1000	10

NOTES:

1. Results presented in micrograms per liter (ug/l)

2. NE: Not Established

Laboratory Data

Environmental Conservation Laboratories, Inc.

102-A Woodwinds Industrial Court

Cary NC, 27511

Phone: 919.467.3090 FAX: 919.467.3515



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Thursday, September 30, 2010

Municipal Engineering Services (MU001)

Attn: Jonathan Pfohl

P.O. Box 97

Garner, NC 27529

RE: Laboratory Results for

Project Number: G10114 - Closed, Project Name/Desc: Wayne Closed Breakout

ENCO Workorder: C010610

Dear Jonathan Pfohl,

Enclosed is a copy of your laboratory report for test samples received by our laboratory on Friday, September 17, 2010.

Unless otherwise noted in an attached project narrative, all samples were received in acceptable condition and processed in accordance with the referenced methods/procedures. Results for these procedures apply only to the samples as submitted.

The analytical results contained in this report are in compliance with NELAC standards, except as noted in the project narrative. This report shall not be reproduced except in full, without the written approval of the Laboratory.

This report contains only those analyses performed by Environmental Conservation Laboratories. Unless otherwise noted, all analyses were performed at ENCO Cary. Data from outside organizations will be reported under separate cover.

If you have any questions or require further information, please do not hesitate to contact me.

Sincerely,

A handwritten signature in black ink that reads "Chuck Smith".

Chuck Smith

Project Manager

Enclosure(s)

SAMPLE SUMMARY/LABORATORY CHRONICLE

Client ID:	MW-2	Lab ID:	C010610-01	Sampled:	09/16/10 15:35	Received:	09/17/10 13:30
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0		10/14/10		09/20/10	07:40	9/20/2010	21:51
EPA 353.2		09/18/10 15:35		09/17/10	18:44	9/17/2010	19:57
EPA 353.2		10/14/10		09/27/10	06:34	9/27/2010	08:33
EPA 353.2		10/14/10		09/29/10	10:08	9/30/2010	11:15
EPA 365.4		10/14/10		09/22/10	10:12	9/22/2010	19:46
EPA 6010C		03/15/11		09/21/10	17:01	9/23/2010	11:17
EPA 6020A		03/15/11		09/21/10	10:05	9/27/2010	09:49
EPA 8260B		09/30/10		09/23/10	12:28	9/23/2010	20:13
SM 2540D		09/23/10		09/22/10	08:15	9/22/2010	08:15
SM 5210B		09/18/10 15:35		09/17/10	20:56	9/17/2010	20:56
SM 5220D		10/14/10		09/28/10	12:03	9/28/2010	17:16

Client ID:	MW-3	Lab ID:	C010610-02	Sampled:	09/16/10 12:10	Received:	09/17/10 13:30
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0		10/14/10		09/20/10	07:40	9/20/2010	22:09
EPA 353.2		09/18/10 12:10		09/17/10	18:44	9/17/2010	19:58
EPA 353.2		10/14/10		09/27/10	06:34	9/27/2010	08:39
EPA 353.2		10/14/10		09/29/10	10:08	9/30/2010	11:15
EPA 365.4		10/14/10		09/22/10	10:12	9/22/2010	19:48
EPA 6010C		03/15/11		09/21/10	17:01	9/23/2010	11:20
EPA 6020A		03/15/11		09/21/10	10:05	9/27/2010	10:11
EPA 8260B		09/30/10		09/23/10	12:28	9/23/2010	20:43
SM 2540D		09/23/10		09/22/10	08:15	9/22/2010	08:15
SM 5210B		09/18/10 12:10		09/17/10	20:56	9/17/2010	20:56
SM 5220D		10/14/10		09/28/10	12:03	9/28/2010	17:16

Client ID:	MW-5	Lab ID:	C010610-03	Sampled:	09/16/10 13:05	Received:	09/17/10 13:30
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0		10/14/10		09/20/10	07:40	9/20/2010	22:26
EPA 353.2		09/18/10 13:05		09/17/10	18:44	9/17/2010	20:00
EPA 353.2		10/14/10		09/27/10	06:34	9/27/2010	08:42
EPA 353.2		10/14/10		09/29/10	10:08	9/30/2010	11:15
EPA 365.4		10/14/10		09/22/10	10:12	9/22/2010	19:50
EPA 6010C		03/15/11		09/21/10	17:01	9/23/2010	11:22
EPA 6020A		03/15/11		09/21/10	10:05	9/27/2010	10:15
EPA 8260B		09/30/10		09/23/10	12:28	9/23/2010	21:14
SM 2540D		09/23/10		09/22/10	08:15	9/22/2010	08:15
SM 5210B		09/18/10 13:05		09/17/10	20:56	9/17/2010	20:56
SM 5220D		10/14/10		09/28/10	12:03	9/28/2010	17:16

Client ID:	MW-7	Lab ID:	C010610-04	Sampled:	09/16/10 16:50	Received:	09/17/10 13:30
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0		10/14/10		09/20/10	07:40	9/20/2010	22:44
EPA 353.2		09/18/10	16:50	09/17/10	18:44	9/17/2010	20:01
EPA 353.2		10/14/10		09/29/10	10:08	9/30/2010	11:15
EPA 365.4		10/14/10		09/22/10	10:12	9/22/2010	19:51
EPA 6010C		03/15/11		09/21/10	17:01	9/23/2010	11:25
EPA 6020A		03/15/11		09/21/10	10:05	9/27/2010	10:18
EPA 8260B		09/30/10		09/23/10	12:28	9/23/2010	21:44
SM 2540D		09/23/10		09/22/10	08:15	9/22/2010	08:15
SM 5210B		09/18/10	16:50	09/17/10	20:56	9/17/2010	20:56
SM 5220D		10/14/10		09/28/10	12:03	9/28/2010	17:16

Client ID:	MW-7	Lab ID:	C010610-04RE1	Sampled:	09/16/10 16:50	Received:	09/17/10 13:30
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 353.2		10/14/10		09/27/10	06:34	9/27/2010	09:58

Client ID:	SW-1	Lab ID:	C010610-05	Sampled:	09/16/10 14:12	Received:	09/17/10 13:30
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 300.0		10/14/10		09/20/10	07:40	9/20/2010	23:02
EPA 353.2		09/18/10	14:12	09/17/10	18:44	9/17/2010	20:02
EPA 353.2		10/14/10		09/27/10	06:34	9/27/2010	08:46
EPA 353.2		10/14/10		09/29/10	10:08	9/30/2010	11:15
EPA 365.4		10/14/10		09/22/10	10:12	9/22/2010	19:53
EPA 6010C		03/15/11		09/21/10	17:01	9/23/2010	11:37
EPA 6020A		03/15/11		09/21/10	10:05	9/27/2010	10:37
EPA 8260B		09/30/10		09/23/10	12:28	9/23/2010	22:14
SM 2540D		09/23/10		09/22/10	08:15	9/22/2010	08:15
SM 5210B		09/18/10	14:12	09/17/10	20:56	9/17/2010	20:56
SM 5220D		10/14/10		09/21/10	13:33	9/21/2010	17:27

Client ID:	HA-1	Lab ID:	C010610-06	Sampled:	09/16/10 06:35	Received:	09/17/10 13:30
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
CALC 9056A		06/11/13		09/17/10	18:14	9/27/2010	13:52
EPA 365.4		10/14/10		09/23/10	08:31	9/24/2010	13:21
EPA 6010C		03/15/11		09/20/10	10:28	9/21/2010	14:57
EPA 8260B		09/30/10		09/22/10	09:42	9/22/2010	19:46
EPA 9045D		09/21/10	13:53	09/21/10	13:39	9/21/2010	13:56
EPA 9056A		09/19/10	09/19/10	09/17/10	18:14	9/17/2010	23:22
EPA 9056A		10/14/10		09/17/10	18:14	9/17/2010	23:22



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Client ID:	HA-2	Lab ID:	C010610-07	Sampled:	09/16/10 11:15	Received:	09/17/10 13:30
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
CALC 9056A		06/11/13		09/17/10	18:20	9/27/2010	13:52
EPA 365.4		10/14/10		09/23/10	08:31	9/24/2010	13:22
EPA 6010C		03/15/11		09/20/10	10:28	9/21/2010	14:59
EPA 8260B		09/30/10		09/22/10	09:42	9/22/2010	20:14
EPA 9045D		09/21/10	13:29	09/21/10	13:15	9/21/2010	13:56
EPA 9056A		09/19/10	09/19/10	18:20	09/17/10	18:20	9/17/2010 23:39
EPA 9056A		10/14/10		09/17/10	18:20	9/17/2010	23:39

Client ID:	HA-BG	Lab ID:	C010610-08	Sampled:	09/16/10 09:50	Received:	09/17/10 13:30
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
CALC 9056A		06/11/13		09/17/10	18:14	9/27/2010	13:52
EPA 365.4		10/14/10		09/23/10	08:31	9/24/2010	13:23
EPA 6010C		03/15/11		09/20/10	10:28	9/21/2010	15:02
EPA 8260B		09/30/10		09/23/10	07:51	9/23/2010	14:01
EPA 9045D		09/21/10	13:53	09/21/10	13:39	9/21/2010	13:56
EPA 9056A		09/19/10	09/19/10	18:14	09/17/10	18:14	9/17/2010 23:57
EPA 9056A		10/14/10		09/17/10	18:14	9/17/2010	23:57

Client ID:	HA-15	Lab ID:	C010610-09	Sampled:	09/17/10 09:00	Received:	09/17/10 13:30
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
CALC 9056A		06/12/13		09/17/10	18:14	9/27/2010	13:52
EPA 365.4		10/15/10		09/23/10	08:31	9/24/2010	13:25
EPA 6010C		03/16/11		09/20/10	10:28	9/21/2010	15:04
EPA 8260B		10/01/10		09/23/10	07:51	9/23/2010	14:30
EPA 9045D		09/21/10	13:53	09/21/10	13:39	9/21/2010	13:56
EPA 9056A		09/20/10	09/19/10	18:14	09/17/10	18:14	9/18/2010 00:15
EPA 9056A		10/15/10		09/17/10	18:14	9/18/2010	00:15

Client ID:	HA-15	Lab ID:	C010610-09RE1	Sampled:	09/17/10 09:00	Received:	09/17/10 13:30
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8260B		10/01/10		09/23/10	07:51	9/24/2010	13:00

Client ID:	HA-20	Lab ID:	C010610-10	Sampled:	09/17/10 10:15	Received:	09/17/10 13:30
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
CALC 9056A		06/12/13		09/17/10	18:20	9/27/2010	13:52
EPA 365.4		10/15/10		09/23/10	08:31	9/24/2010	13:26
EPA 6010C		03/16/11		09/20/10	10:28	9/21/2010	15:07
EPA 8260B		10/01/10		09/23/10	07:51	9/23/2010	14:59
EPA 9045D		09/21/10	13:29	09/21/10	13:15	9/21/2010	13:56
EPA 9056A		09/20/10	09/19/10	18:20	09/17/10	18:20	9/18/2010 00:32
EPA 9056A		10/15/10		09/17/10	18:20	9/18/2010	00:32



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Client ID:	HA-20	Lab ID:	C010610-10RE1	Sampled:	09/17/10 10:15	Received:	09/17/10 13:30
Parameter		Hold Date/Time(s)		Prep Date/Time(s)		Analysis Date/Time(s)	
EPA 8260B		10/01/10		09/23/10 07:51		9/24/2010 13:30	

NORTH CAROLINA SWS SAMPLE DETECTION SUMMARY

Client ID:	MW-2	Lab ID: C010610-01								
Analyte		Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
1,2-Dichlorobenzene		0.52	J	1	0.27	1.0	5	ug/L	EPA 8260B	
1,4-Dichlorobenzene		4.0		1	0.38	1.0	1	ug/L	EPA 8260B	
Acetone		4.0	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Antimony - Total		0.336	J	1	0.220	2.00	6	ug/L	EPA 6020A	
Arsenic - Total		49.0	B	1	2.80	10.0	10	ug/L	EPA 6010C	QB-01
Barium - Total		170		1	1.00	10.0	100	ug/L	EPA 6010C	
Benzene		1.8		1	0.20	1.0	1	ug/L	EPA 8260B	
Cadmium - Total		0.795	J	1	0.360	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand		72000		1	2800	10000	NE	ug/L	SM 5220D	
Chlorobenzene		17		1	0.27	1.0	3	ug/L	EPA 8260B	
Cobalt - Total		1.16	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nitrate as N		88	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N		88	J	1	25	100	NE	ug/L	EPA 353.2	
Selenium - Total		2.94	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Sulfate as SO4		10000	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Suspended Solids		130000		1	1000	1000	NE	ug/L	SM 2540D	
Vanadium - Total		7.44	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total		11.0		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID:	MW-3	Lab ID: C010610-02								
Analyte		Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total		31.9	B	1	2.80	10.0	10	ug/L	EPA 6010C	J-01
Barium - Total		70.0	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total		0.638	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand		27000		1	2800	10000	NE	ug/L	SM 5220D	
Chromium - Total		31.6		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total		5.16	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total		11.3		1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total		19.1		1	1.90	10.0	10	ug/L	EPA 6010C	
Nickel - Total		4.98	J	1	1.80	10.0	50	ug/L	EPA 6010C	
Nitrate as N		200	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N		200		1	25	100	NE	ug/L	EPA 353.2	
Phosphorus		50	J	1	25	100	NE	ug/L	EPA 365.4	
Selenium - Total		1.51	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Sulfate as SO4		10000	J	1	120	5000	250000	ug/L	EPA 300.0	
Thallium - Total		0.342	J	1	0.110	1.00	5.5	ug/L	EPA 6020A	
Total Suspended Solids		350000		1	1000	1000	NE	ug/L	SM 2540D	
Vanadium - Total		37.9		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total		33.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID:	MW-5	Lab ID: C010610-03								
Analyte		Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total		7.64	JB	1	2.80	10.0	10	ug/L	EPA 6010C	J-01
Barium - Total		62.7	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total		0.425	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand		14000		1	2800	10000	NE	ug/L	SM 5220D	
Chromium - Total		15.0		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total		1.11	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total		2.45	J	1	1.60	10.0	10	ug/L	EPA 6010C	



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Client ID: MW-5		Lab ID: C010610-03							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Lead - Total	7.10	J	1	1.90	10.0	10	ug/L	EPA 6010C	
Nitrate as N	480	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	480		1	25	100	NE	ug/L	EPA 353.2	
Phosphorus	280		1	25	100	NE	ug/L	EPA 365.4	
Sulfate as SO4	1700	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Suspended Solids	450000		1	1000	1000	NE	ug/L	SM 2540D	
Vanadium - Total	20.0	J	1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	13.2		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: MW-7		Lab ID: C010610-04							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	27.9	B	1	2.80	10.0	10	ug/L	EPA 6010C	J-01
Barium - Total	55.2	J	1	1.00	10.0	100	ug/L	EPA 6010C	
Beryllium - Total	0.327	J	1	0.100	1.00	1	ug/L	EPA 6010C	
Chemical Oxygen Demand	40000		1	2800	10000	NE	ug/L	SM 5220D	
Chromium - Total	50.0		1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.27	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Copper - Total	5.98	J	1	1.60	10.0	10	ug/L	EPA 6010C	
Lead - Total	21.6		1	1.90	10.0	10	ug/L	EPA 6010C	
Nitrate as N	2900	J	1	25	100	10000	ug/L	EPA 353.2	
Phosphorus	410		1	25	100	NE	ug/L	EPA 365.4	
Sulfate as SO4	6500	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Suspended Solids	630000		1	1000	1000	NE	ug/L	SM 2540D	
Vanadium - Total	158		1	1.40	10.0	25	ug/L	EPA 6010C	
Zinc - Total	18.6		1	3.80	10.0	10	ug/L	EPA 6010C	

Client ID: MW-7		Lab ID: C010610-04RE1							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Nitrate/Nitrite as N	2900	D	2	50	200	NE	ug/L	EPA 353.2	

Client ID: SW-1		Lab ID: C010610-05							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	8.4	J	1	1.5	5.0	100	ug/L	EPA 8260B	
Arsenic - Total	5.87	JB	1	2.80	10.0	10	ug/L	EPA 6010C	J-01
Barium - Total	175		1	1.00	10.0	100	ug/L	EPA 6010C	
Biochemical Oxygen Demand	19000		1	2000	2000	NE	ug/L	SM 5210B	
Chemical Oxygen Demand	140000		1	2800	10000	NE	ug/L	SM 5220D	
Chromium - Total	3.80	J	1	1.00	10.0	10	ug/L	EPA 6010C	
Cobalt - Total	1.29	J	1	1.10	10.0	10	ug/L	EPA 6010C	
Nitrate as N	88	J	1	25	100	10000	ug/L	EPA 353.2	
Nitrate/Nitrite as N	120		1	25	100	NE	ug/L	EPA 353.2	
Nitrite as N	33	J	1	5.6	100	1000	ug/L	EPA 353.2	
Phosphorus	130		1	25	100	NE	ug/L	EPA 365.4	
Selenium - Total	3.96	J	1	0.830	1.00	10	ug/L	EPA 6020A	
Sulfate as SO4	3500	J	1	120	5000	250000	ug/L	EPA 300.0	
Total Suspended Solids	220000		1	1000	1000	NE	ug/L	SM 2540D	

Client ID: HA-1		Lab ID: C010610-06							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	1.36	J	1	0.115	0.576	10	mg/kg dry	EPA 6010C	
Barium - Total	7.29	J	1	0.115	0.576	100	mg/kg dry	EPA 6010C	

Client ID: HA-1		Lab ID: C010610-06							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Chromium - Total	7.28	J	1	0.115	0.576	10	mg/kg dry	EPA 6010C	
Cobalt - Total	0.176	J	1	0.115	0.576	10	mg/kg dry	EPA 6010C	
Copper - Total	1.22	J	1	0.219	0.576	10	mg/kg dry	EPA 6010C	
Lead - Total	4.44	J	1	0.138	0.576	10	mg/kg dry	EPA 6010C	
Nickel - Total	0.533	J	1	0.415	2.88	50	mg/kg dry	EPA 6010C	
Nitrate as N	1.9	J	1	0.14	12	10000	mg/kg dry	EPA 9056A	
Nitrate/Nitrite as N	1.9	J	1	0.67	11	NE	mg/kg dry	CALC 9056A	
Phosphorus	170		1	2.2	9.2	NE	mg/kg dry	EPA 365.4	
Selenium - Total	0.123	JB	1	0.115	0.576	10	mg/kg dry	EPA 6010C	J-01
Sulfate as SO4	21	J	1	1.4	58	250000	mg/kg dry	EPA 9056A	
Thallium - Total	0.278	J	1	0.115	0.576	5.5	mg/kg dry	EPA 6010C	
Vanadium - Total	6.65	J	1	0.115	0.576	25	mg/kg dry	EPA 6010C	
Zinc - Total	3.58	J	1	1.27	2.88	10	mg/kg dry	EPA 6010C	

Client ID: HA-2		Lab ID: C010610-07							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	1.30	J	1	0.104	0.520	10	mg/kg dry	EPA 6010C	
Barium - Total	7.21	J	1	0.104	0.520	100	mg/kg dry	EPA 6010C	
Chromium - Total	4.30	J	1	0.104	0.520	10	mg/kg dry	EPA 6010C	
Cobalt - Total	0.537	J	1	0.104	0.520	10	mg/kg dry	EPA 6010C	
Copper - Total	1.59	J	1	0.198	0.520	10	mg/kg dry	EPA 6010C	
Lead - Total	4.07	J	1	0.125	0.520	10	mg/kg dry	EPA 6010C	
Nickel - Total	0.682	J	1	0.375	2.60	50	mg/kg dry	EPA 6010C	
Phosphorus	69		1	2.0	8.3	NE	mg/kg dry	EPA 365.4	
Selenium - Total	0.367	JB	1	0.104	0.520	10	mg/kg dry	EPA 6010C	J-01
Sulfate as SO4	23	J	1	1.2	52	250000	mg/kg dry	EPA 9056A	
Thallium - Total	0.390	J	1	0.104	0.520	5.5	mg/kg dry	EPA 6010C	
Vanadium - Total	8.60	J	1	0.104	0.520	25	mg/kg dry	EPA 6010C	
Zinc - Total	7.25	J	1	1.14	2.60	10	mg/kg dry	EPA 6010C	

Client ID: HA-BG		Lab ID: C010610-08							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	1.19	J	1	0.106	0.532	10	mg/kg dry	EPA 6010C	
Barium - Total	10.1	J	1	0.106	0.532	100	mg/kg dry	EPA 6010C	
Chromium - Total	4.39	J	1	0.106	0.532	10	mg/kg dry	EPA 6010C	
Cobalt - Total	0.354	J	1	0.106	0.532	10	mg/kg dry	EPA 6010C	
Copper - Total	1.14	J	1	0.202	0.532	10	mg/kg dry	EPA 6010C	
Lead - Total	6.56	J	1	0.128	0.532	10	mg/kg dry	EPA 6010C	
Nickel - Total	0.770	J	1	0.383	2.66	50	mg/kg dry	EPA 6010C	
Phosphorus	88		1	2.0	8.5	NE	mg/kg dry	EPA 365.4	
Selenium - Total	0.386	JB	1	0.106	0.532	10	mg/kg dry	EPA 6010C	J-01
Sulfate as SO4	19	J	1	1.3	53	250000	mg/kg dry	EPA 9056A	
Thallium - Total	0.535	J	1	0.106	0.532	5.5	mg/kg dry	EPA 6010C	
Vanadium - Total	8.10	J	1	0.106	0.532	25	mg/kg dry	EPA 6010C	
Zinc - Total	4.61	J	1	1.17	2.66	10	mg/kg dry	EPA 6010C	

Client ID: HA-15		Lab ID: C010610-09							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
2-Butanone	0.006	J	1	0.0008	0.005	100	mg/kg dry	EPA 8260B	
Arsenic - Total	0.336	J	1	0.105	0.524	10	mg/kg dry	EPA 6010C	
Barium - Total	3.59	J	1	0.105	0.524	100	mg/kg dry	EPA 6010C	

Client ID: HA-15		Lab ID: C010610-09							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Cadmium - Total	0.0129	J	1	0.0101	0.0524	1	mg/kg dry	EPA 6010C	
Chromium - Total	1.47	J	1	0.105	0.524	10	mg/kg dry	EPA 6010C	
Cobalt - Total	0.113	J	1	0.105	0.524	10	mg/kg dry	EPA 6010C	
Copper - Total	0.628	J	1	0.199	0.524	10	mg/kg dry	EPA 6010C	
Lead - Total	2.48	J	1	0.126	0.524	10	mg/kg dry	EPA 6010C	
Nickel - Total	0.398	J	1	0.378	2.62	50	mg/kg dry	EPA 6010C	
Nitrate as N	3.5	J	1	0.13	10	10000	mg/kg dry	EPA 9056A	
Nitrate/Nitrite as N	4.2	J	1	0.62	10	NE	mg/kg dry	CALC 9056A	
Nitrite as N	0.73	J	1	0.034	1.0	1000	mg/kg dry	EPA 9056A	
Phosphorus	100		1	2.0	8.4	NE	mg/kg dry	EPA 365.4	
Thallium - Total	0.200	J	1	0.105	0.524	5.5	mg/kg dry	EPA 6010C	
Vanadium - Total	1.82	J	1	0.105	0.524	25	mg/kg dry	EPA 6010C	
Zinc - Total	1.48	J	1	1.15	2.62	10	mg/kg dry	EPA 6010C	

Client ID: HA-15		Lab ID: C010610-09RE1							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	0.74	JD	100	0.13	0.52	100	mg/kg dry	EPA 8260B	

Client ID: HA-20		Lab ID: C010610-10							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Arsenic - Total	1.91	J	1	0.115	0.574	10	mg/kg dry	EPA 6010C	
Barium - Total	7.06	J	1	0.115	0.574	100	mg/kg dry	EPA 6010C	
Chromium - Total	8.20	J	1	0.115	0.574	10	mg/kg dry	EPA 6010C	
Cobalt - Total	0.302	J	1	0.115	0.574	10	mg/kg dry	EPA 6010C	
Copper - Total	1.17	J	1	0.218	0.574	10	mg/kg dry	EPA 6010C	
Lead - Total	4.97	J	1	0.138	0.574	10	mg/kg dry	EPA 6010C	
Nickel - Total	0.657	J	1	0.413	2.87	50	mg/kg dry	EPA 6010C	
Phosphorus	71		1	2.2	9.2	NE	mg/kg dry	EPA 365.4	
Selenium - Total	0.509	JB	1	0.115	0.574	10	mg/kg dry	EPA 6010C	J-01
Thallium - Total	0.462	J	1	0.115	0.574	5.5	mg/kg dry	EPA 6010C	
Vanadium - Total	15.2	J	1	0.115	0.574	25	mg/kg dry	EPA 6010C	
Zinc - Total	2.82	J	1	1.26	2.87	10	mg/kg dry	EPA 6010C	

Client ID: HA-20		Lab ID: C010610-10RE1							
Analyte	Results	Flag	DF	MDL	MRL	NC SWSL	Units	Method	Notes
Acetone	0.55	JD	99.2	0.14	0.57	100	mg/kg dry	EPA 8260B	

ANALYTICAL RESULTS

Description: MW-2

Lab Sample ID: C010610-01

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 15:35

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	09/23/10 20:13	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	09/23/10 20:13	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	09/23/10 20:13	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	09/23/10 20:13	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/23/10 20:13	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.52	J	ug/L	1	0.27	1.0	5	EPA 8260B	09/23/10 20:13	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
1,4-Dichlorobenzene [106-46-7] ^	4.0		ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	09/23/10 20:13	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	09/23/10 20:13	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/23/10 20:13	JKG	
Acetone [67-64-1] ^	4.0	J	ug/L	1	1.5	5.0	100	EPA 8260B	09/23/10 20:13	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	09/23/10 20:13	JKG	
Benzene [71-43-2] ^	1.8		ug/L	1	0.20	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	09/23/10 20:13	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	09/23/10 20:13	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	09/23/10 20:13	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	09/23/10 20:13	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
Chlorobenzene [108-90-7] ^	17		ug/L	1	0.27	1.0	3	EPA 8260B	09/23/10 20:13	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	09/23/10 20:13	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	09/23/10 20:13	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	09/23/10 20:13	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	09/23/10 20:13	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	09/23/10 20:13	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	09/23/10 20:13	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	09/23/10 20:13	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	09/23/10 20:13	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 20:13	JKG	

Description: MW-2

Lab Sample ID: C010610-01

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 15:35

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	09/23/10 20:13	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	09/23/10 20:13	JKG	
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	09/23/10 20:13	JKG	
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits		Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	43	1	50.0	86 %	51-122		OI23023	EPA 8260B	09/23/10 20:13	JKG	
Dibromofluoromethane	45	1	50.0	89 %	68-117		OI23023	EPA 8260B	09/23/10 20:13	JKG	
Toluene-d8	48	1	50.0	95 %	69-110		OI23023	EPA 8260B	09/23/10 20:13	JKG	

Description: MW-2

Lab Sample ID: C010610-01

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 15:35

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Metals (total recoverable) by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.336	J	ug/L	1	0.220	2.00	6	EPA 6020A	09/27/10 09:49	JDH	
Arsenic [7440-38-2] ^	49.0	B	ug/L	1	2.80	10.0	10	EPA 6010C	09/23/10 11:17	JDH	QB-01
Barium [7440-39-3] ^	170		ug/L	1	1.00	10.0	100	EPA 6010C	09/23/10 11:17	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/23/10 11:17	JDH	
Cadmium [7440-43-9] ^	0.795	J	ug/L	1	0.360	1.00	1	EPA 6010C	09/23/10 11:17	JDH	
Chromium [7440-47-3] ^	1.00	U	ug/L	1	1.00	10.0	10	EPA 6010C	09/23/10 11:17	JDH	
Cobalt [7440-48-4] ^	1.16	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/23/10 11:17	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/23/10 11:17	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/23/10 11:17	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/23/10 11:17	JDH	
Selenium [7782-49-2] ^	2.94	J	ug/L	1	0.830	1.00	10	EPA 6020A	09/27/10 09:49	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/23/10 11:17	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/27/10 09:49	JDH	
Vanadium [7440-62-2] ^	7.44	J	ug/L	1	1.40	10.0	25	EPA 6010C	09/23/10 11:17	JDH	
Zinc [7440-66-6] ^	11.0		ug/L	1	3.80	10.0	10	EPA 6010C	09/23/10 11:17	JDH	

Description: MW-2

Lab Sample ID: C010610-01

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 15:35

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Classical Chemistry Parameters

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	6000	U	ug/L	1	6000	6000	NE	SM 5210B	09/17/10 20:56	JOC	B-01
Chemical Oxygen Demand [ECL-0035]	72000		ug/L	1	2800	10000	NE	SM 5220D	09/28/10 17:16	JOC	
Nitrate as N [14797-55-8] ^	88	J	ug/L	1	25	100	10000	EPA 353.2	09/30/10 11:15	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	88	J	ug/L	1	25	100	NE	EPA 353.2	09/27/10 08:33	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	09/17/10 19:57	AJB	
Phosphorus [7723-14-0] ^	25	U	ug/L	1	25	100	NE	EPA 365.4	09/22/10 19:46	AJB	
Sulfate as SO4 [14808-79-8] ^	10000	J	ug/L	1	120	5000	250000	EPA 300.0	09/20/10 21:51	PEV	
Total Suspended Solids [ECL-0169] ^	130000		ug/L	1	1000	1000	NE	SM 2540D	09/22/10 08:15	PEV	

Description: MW-3

Lab Sample ID: C010610-02

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 12:10

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	09/23/10 20:43	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	09/23/10 20:43	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	09/23/10 20:43	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	09/23/10 20:43	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/23/10 20:43	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	09/23/10 20:43	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	09/23/10 20:43	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	09/23/10 20:43	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/23/10 20:43	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/23/10 20:43	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	09/23/10 20:43	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	09/23/10 20:43	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	09/23/10 20:43	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	09/23/10 20:43	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	09/23/10 20:43	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	09/23/10 20:43	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	09/23/10 20:43	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	09/23/10 20:43	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	09/23/10 20:43	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	09/23/10 20:43	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	09/23/10 20:43	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	09/23/10 20:43	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	09/23/10 20:43	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	09/23/10 20:43	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	09/23/10 20:43	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	09/23/10 20:43	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	09/23/10 20:43	JKG	

Description: MW-3

Lab Sample ID: C010610-02

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 12:10

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	09/23/10 20:43	JKG	
Surrogates											
4-Bromofluorobenzene	42	1	50.0	85 %	51-122	0123023	EPA 8260B	09/23/10 20:43	JKG		
Dibromofluoromethane	46	1	50.0	92 %	68-117	0123023	EPA 8260B	09/23/10 20:43	JKG		
Toluene-d8	48	1	50.0	96 %	69-110	0123023	EPA 8260B	09/23/10 20:43	JKG		

Description: MW-3

Lab Sample ID: C010610-02

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 12:10

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Metals (total recoverable) by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	09/27/10 10:11	JDH	
Arsenic [7440-38-2] ^	31.9	B	ug/L	1	2.80	10.0	10	EPA 6010C	09/23/10 11:20	JDH	J-01
Barium [7440-39-3] ^	70.0	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/23/10 11:20	JDH	
Beryllium [7440-41-7] ^	0.638	J	ug/L	1	0.100	1.00	1	EPA 6010C	09/23/10 11:20	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/23/10 11:20	JDH	
Chromium [7440-47-3] ^	31.6		ug/L	1	1.00	10.0	10	EPA 6010C	09/23/10 11:20	JDH	
Cobalt [7440-48-4] ^	5.16	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/23/10 11:20	JDH	
Copper [7440-50-8] ^	11.3		ug/L	1	1.60	10.0	10	EPA 6010C	09/23/10 11:20	JDH	
Lead [7439-92-1] ^	19.1		ug/L	1	1.90	10.0	10	EPA 6010C	09/23/10 11:20	JDH	
Nickel [7440-02-0] ^	4.98	J	ug/L	1	1.80	10.0	50	EPA 6010C	09/23/10 11:20	JDH	
Selenium [7782-49-2] ^	1.51	J	ug/L	1	0.830	1.00	10	EPA 6020A	09/27/10 10:11	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/23/10 11:20	JDH	
Thallium [7440-28-0] ^	0.342	J	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/27/10 10:11	JDH	
Vanadium [7440-62-2] ^	37.9		ug/L	1	1.40	10.0	25	EPA 6010C	09/23/10 11:20	JDH	
Zinc [7440-66-6] ^	33.2		ug/L	1	3.80	10.0	10	EPA 6010C	09/23/10 11:20	JDH	

Description: MW-3

Lab Sample ID: C010610-02

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 12:10

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Classical Chemistry Parameters

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	09/17/10 20:56	JOC	
Chemical Oxygen Demand [ECL-0035]	27000		ug/L	1	2800	10000	NE	SM 5220D	09/28/10 17:16	JOC	
Nitrate as N [14797-55-8] ^	200	J	ug/L	1	25	100	10000	EPA 353.2	09/30/10 11:15	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	200		ug/L	1	25	100	NE	EPA 353.2	09/27/10 08:39	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	09/17/10 19:58	AJB	
Phosphorus [7723-14-0] ^	50	J	ug/L	1	25	100	NE	EPA 365.4	09/22/10 19:48	AJB	
Sulfate as SO4 [14808-79-8] ^	10000	J	ug/L	1	120	5000	250000	EPA 300.0	09/20/10 22:09	PEV	
Total Suspended Solids [ECL-0169] ^	350000		ug/L	1	1000	1000	NE	SM 2540D	09/22/10 08:15	PEV	

Description: MW-5

Lab Sample ID: C010610-03

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 13:05

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	09/23/10 21:14	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	09/23/10 21:14	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	09/23/10 21:14	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	09/23/10 21:14	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/23/10 21:14	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	09/23/10 21:14	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	09/23/10 21:14	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	09/23/10 21:14	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/23/10 21:14	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/23/10 21:14	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	09/23/10 21:14	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	09/23/10 21:14	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	09/23/10 21:14	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	09/23/10 21:14	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	09/23/10 21:14	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	09/23/10 21:14	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	09/23/10 21:14	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	09/23/10 21:14	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	09/23/10 21:14	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	09/23/10 21:14	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	09/23/10 21:14	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	09/23/10 21:14	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	09/23/10 21:14	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	09/23/10 21:14	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	09/23/10 21:14	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	09/23/10 21:14	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	09/23/10 21:14	JKG	

Description: MW-5

Lab Sample ID: C010610-03

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 13:05

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	09/23/10 21:14	JKG	
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
4-Bromofluorobenzene	43	1	50.0	85 %	51-122	OI23023	EPA 8260B	09/23/10 21:14	JKG		
Dibromofluoromethane	45	1	50.0	91 %	68-117	OI23023	EPA 8260B	09/23/10 21:14	JKG		
Toluene-d8	48	1	50.0	96 %	69-110	OI23023	EPA 8260B	09/23/10 21:14	JKG		

Description: MW-5

Lab Sample ID: C010610-03

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 13:05

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Metals (total recoverable) by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	09/27/10 10:15	JDH	
Arsenic [7440-38-2] ^	7.64	JB	ug/L	1	2.80	10.0	10	EPA 6010C	09/23/10 11:22	JDH	J-01
Barium [7440-39-3] ^	62.7	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/23/10 11:22	JDH	
Beryllium [7440-41-7] ^	0.425	J	ug/L	1	0.100	1.00	1	EPA 6010C	09/23/10 11:22	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/23/10 11:22	JDH	
Chromium [7440-47-3] ^	15.0		ug/L	1	1.00	10.0	10	EPA 6010C	09/23/10 11:22	JDH	
Cobalt [7440-48-4] ^	1.11	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/23/10 11:22	JDH	
Copper [7440-50-8] ^	2.45	J	ug/L	1	1.60	10.0	10	EPA 6010C	09/23/10 11:22	JDH	
Lead [7439-92-1] ^	7.10	J	ug/L	1	1.90	10.0	10	EPA 6010C	09/23/10 11:22	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/23/10 11:22	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	09/27/10 10:15	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/23/10 11:22	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/27/10 10:15	JDH	
Vanadium [7440-62-2] ^	20.0	J	ug/L	1	1.40	10.0	25	EPA 6010C	09/23/10 11:22	JDH	
Zinc [7440-66-6] ^	13.2		ug/L	1	3.80	10.0	10	EPA 6010C	09/23/10 11:22	JDH	

Description: MW-5

Lab Sample ID: C010610-03

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 13:05

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Classical Chemistry Parameters

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	09/17/10 20:56	JOC	
Chemical Oxygen Demand [ECL-0035]	14000		ug/L	1	2800	10000	NE	SM 5220D	09/28/10 17:16	JOC	
Nitrate as N [14797-55-8] ^	480	J	ug/L	1	25	100	10000	EPA 353.2	09/30/10 11:15	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	480		ug/L	1	25	100	NE	EPA 353.2	09/27/10 08:42	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	09/17/10 20:00	AJB	
Phosphorus [7723-14-0] ^	280		ug/L	1	25	100	NE	EPA 365.4	09/22/10 19:50	AJB	
Sulfate as SO4 [14808-79-8] ^	1700	J	ug/L	1	120	5000	250000	EPA 300.0	09/20/10 22:26	PEV	
Total Suspended Solids [ECL-0169] ^	450000		ug/L	1	1000	1000	NE	SM 2540D	09/22/10 08:15	PEV	

Description: MW-7

Lab Sample ID: C010610-04

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 16:50

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	09/23/10 21:44	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	09/23/10 21:44	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	09/23/10 21:44	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	09/23/10 21:44	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/23/10 21:44	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	09/23/10 21:44	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	09/23/10 21:44	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	09/23/10 21:44	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/23/10 21:44	JKG	
Acetone [67-64-1] ^	1.5	U	ug/L	1	1.5	5.0	100	EPA 8260B	09/23/10 21:44	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	09/23/10 21:44	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	09/23/10 21:44	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	09/23/10 21:44	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	09/23/10 21:44	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	09/23/10 21:44	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	09/23/10 21:44	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	09/23/10 21:44	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	09/23/10 21:44	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	09/23/10 21:44	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	09/23/10 21:44	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	09/23/10 21:44	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	09/23/10 21:44	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	09/23/10 21:44	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	09/23/10 21:44	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	09/23/10 21:44	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	09/23/10 21:44	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	09/23/10 21:44	JKG	

Description: MW-7

Lab Sample ID: C010610-04

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 16:50

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	09/23/10 21:44	JKG	
Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes	
4-Bromofluorobenzene	43	1	50.0	87 %	51-122	OI23023	EPA 8260B	09/23/10 21:44	JKG		
Dibromofluoromethane	46	1	50.0	92 %	68-117	OI23023	EPA 8260B	09/23/10 21:44	JKG		
Toluene-d8	47	1	50.0	95 %	69-110	OI23023	EPA 8260B	09/23/10 21:44	JKG		

Description: MW-7

Lab Sample ID: C010610-04

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 16:50

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Metals (total recoverable) by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	09/27/10 10:18	JDH	
Arsenic [7440-38-2] ^	27.9	B	ug/L	1	2.80	10.0	10	EPA 6010C	09/23/10 11:25	JDH	J-01
Barium [7440-39-3] ^	55.2	J	ug/L	1	1.00	10.0	100	EPA 6010C	09/23/10 11:25	JDH	
Beryllium [7440-41-7] ^	0.327	J	ug/L	1	0.100	1.00	1	EPA 6010C	09/23/10 11:25	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/23/10 11:25	JDH	
Chromium [7440-47-3] ^	50.0		ug/L	1	1.00	10.0	10	EPA 6010C	09/23/10 11:25	JDH	
Cobalt [7440-48-4] ^	1.27	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/23/10 11:25	JDH	
Copper [7440-50-8] ^	5.98	J	ug/L	1	1.60	10.0	10	EPA 6010C	09/23/10 11:25	JDH	
Lead [7439-92-1] ^	21.6		ug/L	1	1.90	10.0	10	EPA 6010C	09/23/10 11:25	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/23/10 11:25	JDH	
Selenium [7782-49-2] ^	0.830	U	ug/L	1	0.830	1.00	10	EPA 6020A	09/27/10 10:18	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/23/10 11:25	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/27/10 10:18	JDH	
Vanadium [7440-62-2] ^	158		ug/L	1	1.40	10.0	25	EPA 6010C	09/23/10 11:25	JDH	
Zinc [7440-66-6] ^	18.6		ug/L	1	3.80	10.0	10	EPA 6010C	09/23/10 11:25	JDH	

Description: MW-7

Lab Sample ID: C010610-04

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 16:50

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Classical Chemistry Parameters

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	2000	U	ug/L	1	2000	2000	NE	SM 5210B	09/17/10 20:56	JOC	
Chemical Oxygen Demand [ECL-0035]	40000		ug/L	1	2800	10000	NE	SM 5220D	09/28/10 17:16	JOC	
Nitrate as N [14797-55-8] ^	2900	J	ug/L	1	25	100	10000	EPA 353.2	09/30/10 11:15	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	2900	D	ug/L	2	50	200	NE	EPA 353.2	09/27/10 09:58	PEV	
Nitrite as N [14797-65-0] ^	5.6	U	ug/L	1	5.6	100	1000	EPA 353.2	09/17/10 20:01	AJB	
Phosphorus [7723-14-0] ^	410		ug/L	1	25	100	NE	EPA 365.4	09/22/10 19:51	AJB	
Sulfate as SO4 [14808-79-8] ^	6500	J	ug/L	1	120	5000	250000	EPA 300.0	09/20/10 22:44	PEV	
Total Suspended Solids [ECL-0169] ^	630000		ug/L	1	1000	1000	NE	SM 2540D	09/22/10 08:15	PEV	

Description: SW-1

Lab Sample ID: C010610-05

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 14:12

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,2-Tetrachloroethane [630-20-6] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	09/23/10 22:14	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.33	U	ug/L	1	0.33	1.0	3	EPA 8260B	09/23/10 22:14	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
1,1-Dichloroethane [75-34-3] ^	0.33	U	ug/L	1	0.33	1.0	5	EPA 8260B	09/23/10 22:14	JKG	
1,1-Dichloroethene [75-35-4] ^	0.24	U	ug/L	1	0.24	1.0	5	EPA 8260B	09/23/10 22:14	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.55	U	ug/L	1	0.55	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.48	U	ug/L	1	0.48	1.0	13	EPA 8260B	09/23/10 22:14	JKG	
1,2-Dibromoethane [106-93-4] ^	0.42	U	ug/L	1	0.42	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.27	U	ug/L	1	0.27	1.0	5	EPA 8260B	09/23/10 22:14	JKG	
1,2-Dichloroethane [107-06-2] ^	0.65	U	ug/L	1	0.65	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
1,2-Dichloropropane [78-87-5] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
2-Butanone [78-93-3] ^	1.0	U	ug/L	1	1.0	5.0	100	EPA 8260B	09/23/10 22:14	JKG	
2-Hexanone [591-78-6] ^	0.69	U	ug/L	1	0.69	5.0	50	EPA 8260B	09/23/10 22:14	JKG	
4-Methyl-2-pentanone [108-10-1] ^	1.1	U	ug/L	1	1.1	5.0	100	EPA 8260B	09/23/10 22:14	JKG	
Acetone [67-64-1] ^	8.4	J	ug/L	1	1.5	5.0	100	EPA 8260B	09/23/10 22:14	JKG	
Acrylonitrile [107-13-1] ^	2.1	U	ug/L	1	2.1	10	200	EPA 8260B	09/23/10 22:14	JKG	
Benzene [71-43-2] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
Bromochloromethane [74-97-5] ^	0.42	U	ug/L	1	0.42	1.0	3	EPA 8260B	09/23/10 22:14	JKG	
Bromodichloromethane [75-27-4] ^	0.37	U	ug/L	1	0.37	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
Bromoform [75-25-2] ^	0.71	U	ug/L	1	0.71	1.0	3	EPA 8260B	09/23/10 22:14	JKG	
Bromomethane [74-83-9] ^	0.49	U	ug/L	1	0.49	1.0	10	EPA 8260B	09/23/10 22:14	JKG	
Carbon disulfide [75-15-0] ^	0.54	U	ug/L	1	0.54	5.0	100	EPA 8260B	09/23/10 22:14	JKG	
Carbon tetrachloride [56-23-5] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
Chlorobenzene [108-90-7] ^	0.27	U	ug/L	1	0.27	1.0	3	EPA 8260B	09/23/10 22:14	JKG	
Chloroethane [75-00-3] ^	0.30	U	ug/L	1	0.30	1.0	10	EPA 8260B	09/23/10 22:14	JKG	
Chloroform [67-66-3] ^	0.20	U	ug/L	1	0.20	1.0	5	EPA 8260B	09/23/10 22:14	JKG	
Chloromethane [74-87-3] ^	0.34	U	ug/L	1	0.34	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.36	U	ug/L	1	0.36	1.0	5	EPA 8260B	09/23/10 22:14	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
Dibromochloromethane [124-48-1] ^	0.32	U	ug/L	1	0.32	1.0	3	EPA 8260B	09/23/10 22:14	JKG	
Dibromomethane [74-95-3] ^	0.37	U	ug/L	1	0.37	1.0	10	EPA 8260B	09/23/10 22:14	JKG	
Ethylbenzene [100-41-4] ^	0.20	U	ug/L	1	0.20	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
Iodomethane [74-88-4] ^	0.52	U	ug/L	1	0.52	5.0	10	EPA 8260B	09/23/10 22:14	JKG	
Methylene chloride [75-09-2] ^	0.53	U	ug/L	1	0.53	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
Styrene [100-42-5] ^	0.26	U	ug/L	1	0.26	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
Tetrachloroethene [127-18-4] ^	0.36	U	ug/L	1	0.36	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
Toluene [108-88-3] ^	0.27	U	ug/L	1	0.27	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.34	U	ug/L	1	0.34	1.0	5	EPA 8260B	09/23/10 22:14	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.54	U	ug/L	1	0.54	1.0	100	EPA 8260B	09/23/10 22:14	JKG	
Trichloroethene [79-01-6] ^	0.38	U	ug/L	1	0.38	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
Trichlorofluoromethane [75-69-4] ^	0.28	U	ug/L	1	0.28	1.0	1	EPA 8260B	09/23/10 22:14	JKG	
Vinyl acetate [108-05-4] ^	0.98	U	ug/L	1	0.98	5.0	50	EPA 8260B	09/23/10 22:14	JKG	
Vinyl chloride [75-01-4] ^	0.30	U	ug/L	1	0.30	1.0	1	EPA 8260B	09/23/10 22:14	JKG	

Description: SW-1

Lab Sample ID: C010610-05

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 14:12

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Xylenes (Total) [1330-20-7] ^	0.40	U	ug/L	1	0.40	1.0	5	EPA 8260B	09/23/10 22:14	JKG	
Surrogates											
4-Bromofluorobenzene	44	1	50.0	89 %	51-122	0123023	EPA 8260B	09/23/10 22:14	JKG		
Dibromofluoromethane	48	1	50.0	96 %	68-117	0123023	EPA 8260B	09/23/10 22:14	JKG		
Toluene-d8	48	1	50.0	96 %	69-110	0123023	EPA 8260B	09/23/10 22:14	JKG		

Description: SW-1

Lab Sample ID: C010610-05

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 14:12

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Metals (total recoverable) by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.220	U	ug/L	1	0.220	2.00	6	EPA 6020A	09/27/10 10:37	JDH	
Arsenic [7440-38-2] ^	5.87	JB	ug/L	1	2.80	10.0	10	EPA 6010C	09/23/10 11:37	JDH	J-01
Barium [7440-39-3] ^	175		ug/L	1	1.00	10.0	100	EPA 6010C	09/23/10 11:37	JDH	
Beryllium [7440-41-7] ^	0.100	U	ug/L	1	0.100	1.00	1	EPA 6010C	09/23/10 11:37	JDH	
Cadmium [7440-43-9] ^	0.360	U	ug/L	1	0.360	1.00	1	EPA 6010C	09/23/10 11:37	JDH	
Chromium [7440-47-3] ^	3.80	J	ug/L	1	1.00	10.0	10	EPA 6010C	09/23/10 11:37	JDH	
Cobalt [7440-48-4] ^	1.29	J	ug/L	1	1.10	10.0	10	EPA 6010C	09/23/10 11:37	JDH	
Copper [7440-50-8] ^	1.60	U	ug/L	1	1.60	10.0	10	EPA 6010C	09/23/10 11:37	JDH	
Lead [7439-92-1] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/23/10 11:37	JDH	
Nickel [7440-02-0] ^	1.80	U	ug/L	1	1.80	10.0	50	EPA 6010C	09/23/10 11:37	JDH	
Selenium [7782-49-2] ^	3.96	J	ug/L	1	0.830	1.00	10	EPA 6020A	09/27/10 10:37	JDH	
Silver [7440-22-4] ^	1.90	U	ug/L	1	1.90	10.0	10	EPA 6010C	09/23/10 11:37	JDH	
Thallium [7440-28-0] ^	0.110	U	ug/L	1	0.110	1.00	5.5	EPA 6020A	09/27/10 10:37	JDH	
Vanadium [7440-62-2] ^	1.40	U	ug/L	1	1.40	10.0	25	EPA 6010C	09/23/10 11:37	JDH	
Zinc [7440-66-6] ^	3.80	U	ug/L	1	3.80	10.0	10	EPA 6010C	09/23/10 11:37	JDH	

Description: SW-1

Lab Sample ID: C010610-05

Received: 09/17/10 13:30

Matrix: Ground Water

Sampled: 09/16/10 14:12

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

Classical Chemistry Parameters

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Biochemical Oxygen Demand [ECL-0017] ^	19000		ug/L	1	2000	2000	NE	SM 5210B	09/17/10 20:56	JOC	
Chemical Oxygen Demand [ECL-0035] ^	140000		ug/L	1	2800	10000	NE	SM 5220D	09/21/10 17:27	JOC	
Nitrate as N [14797-55-8] ^	88	J	ug/L	1	25	100	10000	EPA 353.2	09/30/10 11:15	PEV	
Nitrate/Nitrite as N [ECL-0010] ^	120		ug/L	1	25	100	NE	EPA 353.2	09/27/10 08:46	PEV	
Nitrite as N [14797-65-0] ^	33	J	ug/L	1	5.6	100	1000	EPA 353.2	09/17/10 20:02	AJB	
Phosphorus [7723-14-0] ^	130		ug/L	1	25	100	NE	EPA 365.4	09/22/10 19:53	AJB	
Sulfate as SO4 [14808-79-8] ^	3500	J	ug/L	1	120	5000	250000	EPA 300.0	09/20/10 23:02	PEV	
Total Suspended Solids [ECL-0169] ^	220000		ug/L	1	1000	1000	NE	SM 2540D	09/22/10 08:15	PEV	

Description: HA-1

Lab Sample ID: C010610-06

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/16/10 06:35

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 86.8

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,2-Tetrachloroethane [630-20-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	5	EPA 8260B	09/22/10 19:46	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	3	EPA 8260B	09/22/10 19:46	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	5	EPA 8260B	09/22/10 19:46	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	5	EPA 8260B	09/22/10 19:46	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.0009	U	mg/kg dry	1	0.0009	0.001	13	EPA 8260B	09/22/10 19:46	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	5	EPA 8260B	09/22/10 19:46	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
2-Butanone [78-93-3] ^	0.0009	U	mg/kg dry	1	0.0009	0.006	100	EPA 8260B	09/22/10 19:46	JKG	
2-Hexanone [591-78-6] ^	0.0009	U	mg/kg dry	1	0.0009	0.006	50	EPA 8260B	09/22/10 19:46	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.0007	U	mg/kg dry	1	0.0007	0.006	100	EPA 8260B	09/22/10 19:46	JKG	
Acetone [67-64-1] ^	0.001	U	mg/kg dry	1	0.001	0.006	100	EPA 8260B	09/22/10 19:46	JKG	
Acrylonitrile [107-13-1] ^	0.002	U	mg/kg dry	1	0.002	0.012	200	EPA 8260B	09/22/10 19:46	JKG	
Benzene [71-43-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
Bromochloromethane [74-97-5] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	3	EPA 8260B	09/22/10 19:46	JKG	
Bromodichloromethane [75-27-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
Bromoform [75-25-2] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	3	EPA 8260B	09/22/10 19:46	JKG	
Bromomethane [74-83-9] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	10	EPA 8260B	09/22/10 19:46	JKG	
Carbon disulfide [75-15-0] ^	0.0004	U	mg/kg dry	1	0.0004	0.006	100	EPA 8260B	09/22/10 19:46	JKG	
Carbon tetrachloride [56-23-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
Chlorobenzene [108-90-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	3	EPA 8260B	09/22/10 19:46	JKG	
Chloroethane [75-00-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	10	EPA 8260B	09/22/10 19:46	JKG	
Chloroform [67-66-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	5	EPA 8260B	09/22/10 19:46	JKG	
Chloromethane [74-87-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	5	EPA 8260B	09/22/10 19:46	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0001	U	mg/kg dry	1	0.0001	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
Dibromochloromethane [124-48-1] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	3	EPA 8260B	09/22/10 19:46	JKG	
Dibromomethane [74-95-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	10	EPA 8260B	09/22/10 19:46	JKG	
Ethylbenzene [100-41-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
Iodomethane [74-88-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.006	10	EPA 8260B	09/22/10 19:46	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	NE	EPA 8260B	09/22/10 19:46	JKG	
Methylene chloride [75-09-2] ^	0.0006	U	mg/kg dry	1	0.0006	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
o-Xylene [95-47-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	NE	EPA 8260B	09/22/10 19:46	JKG	
Styrene [100-42-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
Tetrachloroethene [127-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
Toluene [108-88-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	5	EPA 8260B	09/22/10 19:46	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	100	EPA 8260B	09/22/10 19:46	JKG	
Trichloroethene [79-01-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/22/10 19:46	JKG	

Description: HA-1

Lab Sample ID: C010610-06

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/16/10 06:35

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 86.8

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.006	50	EPA 8260B	09/22/10 19:46	JKG	
Vinyl chloride [75-01-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/22/10 19:46	JKG	
Xylenes (Total) [1330-20-7] ^	0.0006	U	mg/kg dry	1	0.0006	0.001	5	EPA 8260B	09/22/10 19:46	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	46	1	50.0	92 %	61-118	OI22012	EPA 8260B	09/22/10 19:46	JKG	
Dibromofluoromethane	46	1	50.0	93 %	66-114	OI22012	EPA 8260B	09/22/10 19:46	JKG	
Toluene-d8	46	1	50.0	92 %	63-118	OI22012	EPA 8260B	09/22/10 19:46	JKG	

Description: HA-1

Lab Sample ID: C010610-06

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/16/10 06:35

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 86.8

Metals by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>MRL</u>	<u>NC SWSL</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Antimony [7440-36-0] ^	0.127	U	mg/kg dry	1	0.127	1.15	6	EPA 6010C	09/21/10 14:57	JDH	
Arsenic [7440-38-2] ^	1.36	J	mg/kg dry	1	0.115	0.576	10	EPA 6010C	09/21/10 14:57	JDH	
Barium [7440-39-3] ^	7.29	J	mg/kg dry	1	0.115	0.576	100	EPA 6010C	09/21/10 14:57	JDH	
Beryllium [7440-41-7] ^	0.0138	U	mg/kg dry	1	0.0138	0.0576	1	EPA 6010C	09/21/10 14:57	JDH	
Cadmium [7440-43-9] ^	0.0111	U	mg/kg dry	1	0.0111	0.0576	1	EPA 6010C	09/21/10 14:57	JDH	
Chromium [7440-47-3] ^	7.28	J	mg/kg dry	1	0.115	0.576	10	EPA 6010C	09/21/10 14:57	JDH	
Cobalt [7440-48-4] ^	0.176	J	mg/kg dry	1	0.115	0.576	10	EPA 6010C	09/21/10 14:57	JDH	
Copper [7440-50-8] ^	1.22	J	mg/kg dry	1	0.219	0.576	10	EPA 6010C	09/21/10 14:57	JDH	
Lead [7439-92-1] ^	4.44	J	mg/kg dry	1	0.138	0.576	10	EPA 6010C	09/21/10 14:57	JDH	
Nickel [7440-02-0] ^	0.533	J	mg/kg dry	1	0.415	2.88	50	EPA 6010C	09/21/10 14:57	JDH	
Selenium [7782-49-2] ^	0.123	JB	mg/kg dry	1	0.115	0.576	10	EPA 6010C	09/21/10 14:57	JDH	J-01
Silver [7440-22-4] ^	0.115	U	mg/kg dry	1	0.115	0.576	10	EPA 6010C	09/21/10 14:57	JDH	
Thallium [7440-28-0] ^	0.278	J	mg/kg dry	1	0.115	0.576	5.5	EPA 6010C	09/21/10 14:57	JDH	
Vanadium [7440-62-2] ^	6.65	J	mg/kg dry	1	0.115	0.576	25	EPA 6010C	09/21/10 14:57	JDH	
Zinc [7440-66-6] ^	3.58	J	mg/kg dry	1	1.27	2.88	10	EPA 6010C	09/21/10 14:57	JDH	

Description: HA-1**Lab Sample ID:** C010610-06**Received:** 09/17/10 13:30**Matrix:** Soil**Sampled:** 09/16/10 06:35**Work Order:** C010610**Project:** Wayne Closed Breakout**Sampled By:** Client**% Solids:** 86.8**Classical Chemistry Parameters**

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	1.9	J	mg/kg dry	1	0.14	12	10000	EPA 9056A	09/17/10 23:22	PEV	
Nitrate/Nitrite as N [ECL-0010]	1.9	J	mg/kg dry	1	0.67	11	NE	CALC 9056A	09/27/10 13:52	PEV	
Nitrite as N [14797-65-0]	0.037	U	mg/kg dry	1	0.037	1.2	1000	EPA 9056A	09/17/10 23:22	PEV	
pH [ECL-0062]	6.6		pH Units	1	1.0	1.0		EPA 9045D	09/21/10 13:56	AJB	Q
Phosphorus [7723-14-0]	170		mg/kg dry	1	2.2	9.2	NE	EPA 365.4	09/24/10 13:21	AJB	
Sulfate as SO4 [14808-79-8]	21	J	mg/kg dry	1	1.4	58	250000	EPA 9056A	09/17/10 23:22	PEV	

Description: HA-2

Lab Sample ID: C010610-07

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/16/10 11:15

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 96.1

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,2-Tetrachloroethane [630-20-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	5	EPA 8260B	09/22/10 20:14	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	3	EPA 8260B	09/22/10 20:14	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	5	EPA 8260B	09/22/10 20:14	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	5	EPA 8260B	09/22/10 20:14	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.0008	U	mg/kg dry	1	0.0008	0.001	13	EPA 8260B	09/22/10 20:14	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	5	EPA 8260B	09/22/10 20:14	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
2-Butanone [78-93-3] ^	0.0008	U	mg/kg dry	1	0.0008	0.005	100	EPA 8260B	09/22/10 20:14	JKG	
2-Hexanone [591-78-6] ^	0.0008	U	mg/kg dry	1	0.0008	0.005	50	EPA 8260B	09/22/10 20:14	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.0006	U	mg/kg dry	1	0.0006	0.005	100	EPA 8260B	09/22/10 20:14	JKG	
Acetone [67-64-1] ^	0.001	U	mg/kg dry	1	0.001	0.005	100	EPA 8260B	09/22/10 20:14	JKG	
Acrylonitrile [107-13-1] ^	0.002	U	mg/kg dry	1	0.002	0.010	200	EPA 8260B	09/22/10 20:14	JKG	
Benzene [71-43-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
Bromochloromethane [74-97-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	3	EPA 8260B	09/22/10 20:14	JKG	
Bromodichloromethane [75-27-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
Bromoform [75-25-2] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	3	EPA 8260B	09/22/10 20:14	JKG	
Bromomethane [74-83-9] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	10	EPA 8260B	09/22/10 20:14	JKG	
Carbon disulfide [75-15-0] ^	0.0004	U	mg/kg dry	1	0.0004	0.005	100	EPA 8260B	09/22/10 20:14	JKG	
Carbon tetrachloride [56-23-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
Chlorobenzene [108-90-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	3	EPA 8260B	09/22/10 20:14	JKG	
Chloroethane [75-00-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	10	EPA 8260B	09/22/10 20:14	JKG	
Chloroform [67-66-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	5	EPA 8260B	09/22/10 20:14	JKG	
Chloromethane [74-87-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	5	EPA 8260B	09/22/10 20:14	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0001	U	mg/kg dry	1	0.0001	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
Dibromochloromethane [124-48-1] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	3	EPA 8260B	09/22/10 20:14	JKG	
Dibromomethane [74-95-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	10	EPA 8260B	09/22/10 20:14	JKG	
Ethylbenzene [100-41-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
Iodomethane [74-88-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.005	10	EPA 8260B	09/22/10 20:14	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	NE	EPA 8260B	09/22/10 20:14	JKG	
Methylene chloride [75-09-2] ^	0.0006	U	mg/kg dry	1	0.0006	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
o-Xylene [95-47-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	NE	EPA 8260B	09/22/10 20:14	JKG	
Styrene [100-42-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
Tetrachloroethene [127-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
Toluene [108-88-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	5	EPA 8260B	09/22/10 20:14	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	100	EPA 8260B	09/22/10 20:14	JKG	
Trichloroethene [79-01-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/22/10 20:14	JKG	

Description: HA-2

Lab Sample ID: C010610-07

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/16/10 11:15

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 96.1

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.005	50	EPA 8260B	09/22/10 20:14	JKG	
Vinyl chloride [75-01-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/22/10 20:14	JKG	
Xylenes (Total) [1330-20-7] ^	0.0006	U	mg/kg dry	1	0.0006	0.001	5	EPA 8260B	09/22/10 20:14	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	47	1	50.0	94 %	61-118	OI22012	EPA 8260B	09/22/10 20:14	JKG	
Dibromofluoromethane	46	1	50.0	93 %	66-114	OI22012	EPA 8260B	09/22/10 20:14	JKG	
Toluene-d8	46	1	50.0	92 %	63-118	OI22012	EPA 8260B	09/22/10 20:14	JKG	

Description: HA-2

Lab Sample ID: C010610-07

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/16/10 11:15

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 96.1

Metals by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>MRL</u>	<u>NC SWSL</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Antimony [7440-36-0] ^	0.114	U	mg/kg dry	1	0.114	1.04	6	EPA 6010C	09/21/10 14:59	JDH	
Arsenic [7440-38-2] ^	1.30	J	mg/kg dry	1	0.104	0.520	10	EPA 6010C	09/21/10 14:59	JDH	
Barium [7440-39-3] ^	7.21	J	mg/kg dry	1	0.104	0.520	100	EPA 6010C	09/21/10 14:59	JDH	
Beryllium [7440-41-7] ^	0.0125	U	mg/kg dry	1	0.0125	0.0520	1	EPA 6010C	09/21/10 14:59	JDH	
Cadmium [7440-43-9] ^	0.00999	U	mg/kg dry	1	0.00999	0.0520	1	EPA 6010C	09/21/10 14:59	JDH	
Chromium [7440-47-3] ^	4.30	J	mg/kg dry	1	0.104	0.520	10	EPA 6010C	09/21/10 14:59	JDH	
Cobalt [7440-48-4] ^	0.537	J	mg/kg dry	1	0.104	0.520	10	EPA 6010C	09/21/10 14:59	JDH	
Copper [7440-50-8] ^	1.59	J	mg/kg dry	1	0.198	0.520	10	EPA 6010C	09/21/10 14:59	JDH	
Lead [7439-92-1] ^	4.07	J	mg/kg dry	1	0.125	0.520	10	EPA 6010C	09/21/10 14:59	JDH	
Nickel [7440-02-0] ^	0.682	J	mg/kg dry	1	0.375	2.60	50	EPA 6010C	09/21/10 14:59	JDH	
Selenium [7782-49-2] ^	0.367	JB	mg/kg dry	1	0.104	0.520	10	EPA 6010C	09/21/10 14:59	JDH	J-01
Silver [7440-22-4] ^	0.104	U	mg/kg dry	1	0.104	0.520	10	EPA 6010C	09/21/10 14:59	JDH	
Thallium [7440-28-0] ^	0.390	J	mg/kg dry	1	0.104	0.520	5.5	EPA 6010C	09/21/10 14:59	JDH	
Vanadium [7440-62-2] ^	8.60	J	mg/kg dry	1	0.104	0.520	25	EPA 6010C	09/21/10 14:59	JDH	
Zinc [7440-66-6] ^	7.25	J	mg/kg dry	1	1.14	2.60	10	EPA 6010C	09/21/10 14:59	JDH	

Description: HA-2

Lab Sample ID: C010610-07

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/16/10 11:15

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 96.1

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	0.12	U	mg/kg dry	1	0.12	10	10000	EPA 9056A	09/17/10 23:39	PEV	
Nitrate/Nitrite as N [ECL-0010]	0.60	U	mg/kg dry	1	0.60	10	NE	CALC 9056A	09/27/10 13:52	PEV	
Nitrite as N [14797-65-0]	0.033	U	mg/kg dry	1	0.033	1.0	1000	EPA 9056A	09/17/10 23:39	PEV	
pH [ECL-0062]	6.4		pH Units	1	1.0	1.0		EPA 9045D	09/21/10 13:56	AJB	Q
Phosphorus [7723-14-0]	69		mg/kg dry	1	2.0	8.3	NE	EPA 365.4	09/24/10 13:22	AJB	
Sulfate as SO4 [14808-79-8]	23	J	mg/kg dry	1	1.2	52	250000	EPA 9056A	09/17/10 23:39	PEV	

Description: HA-BG

Lab Sample ID: C010610-08

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/16/10 09:50

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 94.0

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,2-Tetrachloroethane [630-20-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	5	EPA 8260B	09/23/10 14:01	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	3	EPA 8260B	09/23/10 14:01	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	5	EPA 8260B	09/23/10 14:01	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	5	EPA 8260B	09/23/10 14:01	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.0008	U	mg/kg dry	1	0.0008	0.001	13	EPA 8260B	09/23/10 14:01	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	5	EPA 8260B	09/23/10 14:01	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
2-Butanone [78-93-3] ^	0.0007	U	mg/kg dry	1	0.0007	0.005	100	EPA 8260B	09/23/10 14:01	JKG	
2-Hexanone [591-78-6] ^	0.0007	U	mg/kg dry	1	0.0007	0.005	50	EPA 8260B	09/23/10 14:01	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.0005	U	mg/kg dry	1	0.0005	0.005	100	EPA 8260B	09/23/10 14:01	JKG	
Acetone [67-64-1] ^	0.001	U	mg/kg dry	1	0.001	0.005	100	EPA 8260B	09/23/10 14:01	JKG	
Acrylonitrile [107-13-1] ^	0.002	U	mg/kg dry	1	0.002	0.010	200	EPA 8260B	09/23/10 14:01	JKG	
Benzene [71-43-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
Bromochloromethane [74-97-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	3	EPA 8260B	09/23/10 14:01	JKG	
Bromodichloromethane [75-27-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
Bromoform [75-25-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	3	EPA 8260B	09/23/10 14:01	JKG	
Bromomethane [74-83-9] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	10	EPA 8260B	09/23/10 14:01	JKG	
Carbon disulfide [75-15-0] ^	0.0004	U	mg/kg dry	1	0.0004	0.005	100	EPA 8260B	09/23/10 14:01	JKG	
Carbon tetrachloride [56-23-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
Chlorobenzene [108-90-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	3	EPA 8260B	09/23/10 14:01	JKG	
Chloroethane [75-00-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	10	EPA 8260B	09/23/10 14:01	JKG	
Chloroform [67-66-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	5	EPA 8260B	09/23/10 14:01	JKG	
Chloromethane [74-87-3] ^	0.0001	U	mg/kg dry	1	0.0001	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	5	EPA 8260B	09/23/10 14:01	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0001	U	mg/kg dry	1	0.0001	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
Dibromochloromethane [124-48-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	3	EPA 8260B	09/23/10 14:01	JKG	
Dibromomethane [74-95-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	10	EPA 8260B	09/23/10 14:01	JKG	
Ethylbenzene [100-41-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
Iodomethane [74-88-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.005	10	EPA 8260B	09/23/10 14:01	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	NE	EPA 8260B	09/23/10 14:01	JKG	
Methylene chloride [75-09-2] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
o-Xylene [95-47-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	NE	EPA 8260B	09/23/10 14:01	JKG	
Styrene [100-42-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
Tetrachloroethene [127-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
Toluene [108-88-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	5	EPA 8260B	09/23/10 14:01	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	100	EPA 8260B	09/23/10 14:01	JKG	
Trichloroethene [79-01-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:01	JKG	

Description: HA-BG

Lab Sample ID: C010610-08

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/16/10 09:50

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 94.0

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.005	50	EPA 8260B	09/23/10 14:01	JKG	
Vinyl chloride [75-01-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:01	JKG	
Xylenes (Total) [1330-20-7] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	5	EPA 8260B	09/23/10 14:01	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	45	1	50.0	91 %	61-118	OI23003	EPA 8260B	09/23/10 14:01	JKG	
Dibromofluoromethane	46	1	50.0	92 %	66-114	OI23003	EPA 8260B	09/23/10 14:01	JKG	
Toluene-d8	45	1	50.0	91 %	63-118	OI23003	EPA 8260B	09/23/10 14:01	JKG	

Description: HA-BG

Lab Sample ID: C010610-08

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/16/10 09:50

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 94.0

Metals by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>MRL</u>	<u>NC SWSL</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Antimony [7440-36-0] ^	0.117	U	mg/kg dry	1	0.117	1.06	6	EPA 6010C	09/21/10 15:02	JDH	
Arsenic [7440-38-2] ^	1.19	J	mg/kg dry	1	0.106	0.532	10	EPA 6010C	09/21/10 15:02	JDH	
Barium [7440-39-3] ^	10.1	J	mg/kg dry	1	0.106	0.532	100	EPA 6010C	09/21/10 15:02	JDH	
Beryllium [7440-41-7] ^	0.0128	U	mg/kg dry	1	0.0128	0.0532	1	EPA 6010C	09/21/10 15:02	JDH	
Cadmium [7440-43-9] ^	0.0102	U	mg/kg dry	1	0.0102	0.0532	1	EPA 6010C	09/21/10 15:02	JDH	
Chromium [7440-47-3] ^	4.39	J	mg/kg dry	1	0.106	0.532	10	EPA 6010C	09/21/10 15:02	JDH	
Cobalt [7440-48-4] ^	0.354	J	mg/kg dry	1	0.106	0.532	10	EPA 6010C	09/21/10 15:02	JDH	
Copper [7440-50-8] ^	1.14	J	mg/kg dry	1	0.202	0.532	10	EPA 6010C	09/21/10 15:02	JDH	
Lead [7439-92-1] ^	6.56	J	mg/kg dry	1	0.128	0.532	10	EPA 6010C	09/21/10 15:02	JDH	
Nickel [7440-02-0] ^	0.770	J	mg/kg dry	1	0.383	2.66	50	EPA 6010C	09/21/10 15:02	JDH	
Selenium [7782-49-2] ^	0.386	JB	mg/kg dry	1	0.106	0.532	10	EPA 6010C	09/21/10 15:02	JDH	J-01
Silver [7440-22-4] ^	0.106	U	mg/kg dry	1	0.106	0.532	10	EPA 6010C	09/21/10 15:02	JDH	
Thallium [7440-28-0] ^	0.535	J	mg/kg dry	1	0.106	0.532	5.5	EPA 6010C	09/21/10 15:02	JDH	
Vanadium [7440-62-2] ^	8.10	J	mg/kg dry	1	0.106	0.532	25	EPA 6010C	09/21/10 15:02	JDH	
Zinc [7440-66-6] ^	4.61	J	mg/kg dry	1	1.17	2.66	10	EPA 6010C	09/21/10 15:02	JDH	

Description: HA-BG

Lab Sample ID: C010610-08

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/16/10 09:50

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 94.0

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	0.13	U	mg/kg dry	1	0.13	11	10000	EPA 9056A	09/17/10 23:57	PEV	
Nitrate/Nitrite as N [ECL-0010]	0.62	U	mg/kg dry	1	0.62	10	NE	CALC 9056A	09/27/10 13:52	PEV	
Nitrite as N [14797-65-0]	0.034	U	mg/kg dry	1	0.034	1.1	1000	EPA 9056A	09/17/10 23:57	PEV	
pH [ECL-0062]	6.9		pH Units	1	1.0	1.0		EPA 9045D	09/21/10 13:56	AJB	Q
Phosphorus [7723-14-0]	88		mg/kg dry	1	2.0	8.5	NE	EPA 365.4	09/24/10 13:23	AJB	
Sulfate as SO4 [14808-79-8]	19	J	mg/kg dry	1	1.3	53	250000	EPA 9056A	09/17/10 23:57	PEV	

Description: HA-15

Lab Sample ID: C010610-09

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/17/10 09:00

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 95.3

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,2-Tetrachloroethane [630-20-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	5	EPA 8260B	09/23/10 14:30	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	3	EPA 8260B	09/23/10 14:30	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	5	EPA 8260B	09/23/10 14:30	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	5	EPA 8260B	09/23/10 14:30	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.0008	U	mg/kg dry	1	0.0008	0.001	13	EPA 8260B	09/23/10 14:30	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	5	EPA 8260B	09/23/10 14:30	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
2-Butanone [78-93-3] ^	0.006	J	mg/kg dry	1	0.0008	0.005	100	EPA 8260B	09/23/10 14:30	JKG	
2-Hexanone [591-78-6] ^	0.0008	U	mg/kg dry	1	0.0008	0.005	50	EPA 8260B	09/23/10 14:30	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.0006	U	mg/kg dry	1	0.0006	0.005	100	EPA 8260B	09/23/10 14:30	JKG	
Acetone [67-64-1] ^	0.74	JD	mg/kg dry	100	0.13	0.52	100	EPA 8260B	09/24/10 13:00	JKG	
Acrylonitrile [107-13-1] ^	0.002	U	mg/kg dry	1	0.002	0.010	200	EPA 8260B	09/23/10 14:30	JKG	
Benzene [71-43-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
Bromochloromethane [74-97-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	3	EPA 8260B	09/23/10 14:30	JKG	
Bromodichloromethane [75-27-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
Bromoform [75-25-2] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	3	EPA 8260B	09/23/10 14:30	JKG	
Bromomethane [74-83-9] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	10	EPA 8260B	09/23/10 14:30	JKG	
Carbon disulfide [75-15-0] ^	0.0004	U	mg/kg dry	1	0.0004	0.005	100	EPA 8260B	09/23/10 14:30	JKG	
Carbon tetrachloride [56-23-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
Chlorobenzene [108-90-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	3	EPA 8260B	09/23/10 14:30	JKG	
Chloroethane [75-00-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	10	EPA 8260B	09/23/10 14:30	JKG	
Chloroform [67-66-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	5	EPA 8260B	09/23/10 14:30	JKG	
Chloromethane [74-87-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	5	EPA 8260B	09/23/10 14:30	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0001	U	mg/kg dry	1	0.0001	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
Dibromochloromethane [124-48-1] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	3	EPA 8260B	09/23/10 14:30	JKG	
Dibromomethane [74-95-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	10	EPA 8260B	09/23/10 14:30	JKG	
Ethylbenzene [100-41-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
Iodomethane [74-88-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.005	10	EPA 8260B	09/23/10 14:30	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	NE	EPA 8260B	09/23/10 14:30	JKG	
Methylene chloride [75-09-2] ^	0.0006	U	mg/kg dry	1	0.0006	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
o-Xylene [95-47-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	NE	EPA 8260B	09/23/10 14:30	JKG	
Styrene [100-42-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
Tetrachloroethene [127-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
Toluene [108-88-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	5	EPA 8260B	09/23/10 14:30	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	100	EPA 8260B	09/23/10 14:30	JKG	
Trichloroethene [79-01-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/23/10 14:30	JKG	

Description: HA-15

Lab Sample ID: C010610-09

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/17/10 09:00

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 95.3

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.005	50	EPA 8260B	09/23/10 14:30	JKG	
Vinyl chloride [75-01-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/23/10 14:30	JKG	
Xylenes (Total) [1330-20-7] ^	0.0006	U	mg/kg dry	1	0.0006	0.001	5	EPA 8260B	09/23/10 14:30	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	46	1	50.0	92 %	61-118	OI23003	EPA 8260B	09/23/10 14:30	JKG	
4-Bromofluorobenzene	42	1	50.0	84 %	61-118	OI23025	EPA 8260B	09/24/10 13:00	JKG	
Dibromofluoromethane	46	1	50.0	91 %	66-114	OI23003	EPA 8260B	09/23/10 14:30	JKG	
Dibromofluoromethane	45	1	50.0	89 %	66-114	OI23025	EPA 8260B	09/24/10 13:00	JKG	
Toluene-d8	45	1	50.0	91 %	63-118	OI23003	EPA 8260B	09/23/10 14:30	JKG	
Toluene-d8	47	1	50.0	94 %	63-118	OI23025	EPA 8260B	09/24/10 13:00	JKG	

Description: HA-15

Lab Sample ID: C010610-09

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/17/10 09:00

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 95.3

Metals by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Antimony [7440-36-0] ^	0.115	U	mg/kg dry	1	0.115	1.05	6	EPA 6010C	09/21/10 15:04	JDH	
Arsenic [7440-38-2] ^	0.336	J	mg/kg dry	1	0.105	0.524	10	EPA 6010C	09/21/10 15:04	JDH	
Barium [7440-39-3] ^	3.59	J	mg/kg dry	1	0.105	0.524	100	EPA 6010C	09/21/10 15:04	JDH	
Beryllium [7440-41-7] ^	0.0126	U	mg/kg dry	1	0.0126	0.0524	1	EPA 6010C	09/21/10 15:04	JDH	
Cadmium [7440-43-9] ^	0.0129	J	mg/kg dry	1	0.0101	0.0524	1	EPA 6010C	09/21/10 15:04	JDH	
Chromium [7440-47-3] ^	1.47	J	mg/kg dry	1	0.105	0.524	10	EPA 6010C	09/21/10 15:04	JDH	
Cobalt [7440-48-4] ^	0.113	J	mg/kg dry	1	0.105	0.524	10	EPA 6010C	09/21/10 15:04	JDH	
Copper [7440-50-8] ^	0.628	J	mg/kg dry	1	0.199	0.524	10	EPA 6010C	09/21/10 15:04	JDH	
Lead [7439-92-1] ^	2.48	J	mg/kg dry	1	0.126	0.524	10	EPA 6010C	09/21/10 15:04	JDH	
Nickel [7440-02-0] ^	0.398	J	mg/kg dry	1	0.378	2.62	50	EPA 6010C	09/21/10 15:04	JDH	
Selenium [7782-49-2] ^	0.105	U	mg/kg dry	1	0.105	0.524	10	EPA 6010C	09/21/10 15:04	JDH	
Silver [7440-22-4] ^	0.105	U	mg/kg dry	1	0.105	0.524	10	EPA 6010C	09/21/10 15:04	JDH	
Thallium [7440-28-0] ^	0.200	J	mg/kg dry	1	0.105	0.524	5.5	EPA 6010C	09/21/10 15:04	JDH	
Vanadium [7440-62-2] ^	1.82	J	mg/kg dry	1	0.105	0.524	25	EPA 6010C	09/21/10 15:04	JDH	
Zinc [7440-66-6] ^	1.48	J	mg/kg dry	1	1.15	2.62	10	EPA 6010C	09/21/10 15:04	JDH	

Description: HA-15

Lab Sample ID: C010610-09

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/17/10 09:00

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 95.3

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	3.5	J	mg/kg dry	1	0.13	10	10000	EPA 9056A	09/18/10 00:15	PEV	
Nitrate/Nitrite as N [ECL-0010]	4.2	J	mg/kg dry	1	0.62	10	NE	CALC 9056A	09/27/10 13:52	PEV	
Nitrite as N [14797-65-0]	0.73	J	mg/kg dry	1	0.034	1.0	1000	EPA 9056A	09/18/10 00:15	PEV	
pH [ECL-0062]	5.6		pH Units	1	1.0	1.0		EPA 9045D	09/21/10 13:56	AJB	Q
Phosphorus [7723-14-0]	100		mg/kg dry	1	2.0	8.4	NE	EPA 365.4	09/24/10 13:25	AJB	
Sulfate as SO4 [14808-79-8]	1.3	U	mg/kg dry	1	1.3	52	250000	EPA 9056A	09/18/10 00:15	PEV	

Description: HA-20

Lab Sample ID: C010610-10

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/17/10 10:15

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 87.1

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
1,1,2-Tetrachloroethane [630-20-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	5	EPA 8260B	09/23/10 14:59	JKG	
1,1,1-Trichloroethane [71-55-6] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
1,1,2,2-Tetrachloroethane [79-34-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	3	EPA 8260B	09/23/10 14:59	JKG	
1,1,2-Trichloroethane [79-00-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
1,1-Dichloroethane [75-34-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	5	EPA 8260B	09/23/10 14:59	JKG	
1,1-Dichloroethene [75-35-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	5	EPA 8260B	09/23/10 14:59	JKG	
1,2,3-Trichloropropane [96-18-4] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
1,2-Dibromo-3-chloropropane [96-12-8] ^	0.0009	U	mg/kg dry	1	0.0009	0.001	13	EPA 8260B	09/23/10 14:59	JKG	
1,2-Dibromoethane [106-93-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
1,2-Dichlorobenzene [95-50-1] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	5	EPA 8260B	09/23/10 14:59	JKG	
1,2-Dichloroethane [107-06-2] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
1,2-Dichloropropane [78-87-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
1,4-Dichlorobenzene [106-46-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
2-Butanone [78-93-3] ^	0.0009	U	mg/kg dry	1	0.0009	0.006	100	EPA 8260B	09/23/10 14:59	JKG	
2-Hexanone [591-78-6] ^	0.0009	U	mg/kg dry	1	0.0009	0.006	50	EPA 8260B	09/23/10 14:59	JKG	
4-Methyl-2-pentanone [108-10-1] ^	0.0007	U	mg/kg dry	1	0.0007	0.006	100	EPA 8260B	09/23/10 14:59	JKG	
Acetone [67-64-1] ^	0.55	JD	mg/kg dry	99.2	0.14	0.57	100	EPA 8260B	09/24/10 13:30	JKG	
Acrylonitrile [107-13-1] ^	0.002	U	mg/kg dry	1	0.002	0.011	200	EPA 8260B	09/23/10 14:59	JKG	
Benzene [71-43-2] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
Bromochloromethane [74-97-5] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	3	EPA 8260B	09/23/10 14:59	JKG	
Bromodichloromethane [75-27-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
Bromoform [75-25-2] ^	0.0005	U	mg/kg dry	1	0.0005	0.001	3	EPA 8260B	09/23/10 14:59	JKG	
Bromomethane [74-83-9] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	10	EPA 8260B	09/23/10 14:59	JKG	
Carbon disulfide [75-15-0] ^	0.0004	U	mg/kg dry	1	0.0004	0.006	100	EPA 8260B	09/23/10 14:59	JKG	
Carbon tetrachloride [56-23-5] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
Chlorobenzene [108-90-7] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	3	EPA 8260B	09/23/10 14:59	JKG	
Chloroethane [75-00-3] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	10	EPA 8260B	09/23/10 14:59	JKG	
Chloroform [67-66-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	5	EPA 8260B	09/23/10 14:59	JKG	
Chloromethane [74-87-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
cis-1,2-Dichloroethene [156-59-2] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	5	EPA 8260B	09/23/10 14:59	JKG	
cis-1,3-Dichloropropene [10061-01-5] ^	0.0001	U	mg/kg dry	1	0.0001	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
Dibromochloromethane [124-48-1] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	3	EPA 8260B	09/23/10 14:59	JKG	
Dibromomethane [74-95-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	10	EPA 8260B	09/23/10 14:59	JKG	
Ethylbenzene [100-41-4] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
Iodomethane [74-88-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.006	10	EPA 8260B	09/23/10 14:59	JKG	
m,p-Xylenes [108-38-3/106-42-3] ^	0.0004	U	mg/kg dry	1	0.0004	0.002	NE	EPA 8260B	09/23/10 14:59	JKG	
Methylene chloride [75-09-2] ^	0.0006	U	mg/kg dry	1	0.0006	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
o-Xylene [95-47-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	NE	EPA 8260B	09/23/10 14:59	JKG	
Styrene [100-42-5] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
Tetrachloroethene [127-18-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
Toluene [108-88-3] ^	0.0002	U	mg/kg dry	1	0.0002	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
trans-1,2-Dichloroethene [156-60-5] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	5	EPA 8260B	09/23/10 14:59	JKG	
trans-1,3-Dichloropropene [10061-02-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
trans-1,4-Dichloro-2-butene [110-57-6] ^	0.0004	U	mg/kg dry	1	0.0004	0.001	100	EPA 8260B	09/23/10 14:59	JKG	
Trichloroethene [79-01-6] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
Trichlorofluoromethane [75-69-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/23/10 14:59	JKG	

Description: HA-20

Lab Sample ID: C010610-10

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/17/10 10:15

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 87.1

Volatile Organic Compounds by GCMS

[^] - ENCO Cary certified analyte [NC 591]

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Vinyl acetate [108-05-4] ^	0.0005	U	mg/kg dry	1	0.0005	0.006	50	EPA 8260B	09/23/10 14:59	JKG	
Vinyl chloride [75-01-4] ^	0.0003	U	mg/kg dry	1	0.0003	0.001	1	EPA 8260B	09/23/10 14:59	JKG	
Xylenes (Total) [1330-20-7] ^	0.0006	U	mg/kg dry	1	0.0006	0.001	5	EPA 8260B	09/23/10 14:59	JKG	

Surrogates	Results	DF	Spike Lvl	% Rec	% Rec Limits	Batch	Method	Analyzed	By	Notes
4-Bromofluorobenzene	48	1	50.0	96 %	61-118	OI23003	EPA 8260B	09/23/10 14:59	JKG	
4-Bromofluorobenzene	41	1	50.0	82 %	61-118	OI23025	EPA 8260B	09/24/10 13:30	JKG	
Dibromofluoromethane	47	1	50.0	93 %	66-114	OI23003	EPA 8260B	09/23/10 14:59	JKG	
Dibromofluoromethane	44	1	50.0	88 %	66-114	OI23025	EPA 8260B	09/24/10 13:30	JKG	
Toluene-d8	47	1	50.0	94 %	63-118	OI23003	EPA 8260B	09/23/10 14:59	JKG	
Toluene-d8	47	1	50.0	94 %	63-118	OI23025	EPA 8260B	09/24/10 13:30	JKG	

Description: HA-20

Lab Sample ID: C010610-10

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/17/10 10:15

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 87.1

Metals by EPA 6000/7000 Series Methods
[^] - ENCO Cary certified analyte [NC 591]

<u>Analyte [CAS Number]</u>	<u>Results</u>	<u>Flag</u>	<u>Units</u>	<u>DF</u>	<u>MDL</u>	<u>MRL</u>	<u>NC SWSL</u>	<u>Method</u>	<u>Analyzed</u>	<u>By</u>	<u>Notes</u>
Antimony [7440-36-0] ^	0.126	U	mg/kg dry	1	0.126	1.15	6	EPA 6010C	09/21/10 15:07	JDH	
Arsenic [7440-38-2] ^	1.91	J	mg/kg dry	1	0.115	0.574	10	EPA 6010C	09/21/10 15:07	JDH	
Barium [7440-39-3] ^	7.06	J	mg/kg dry	1	0.115	0.574	100	EPA 6010C	09/21/10 15:07	JDH	
Beryllium [7440-41-7] ^	0.0138	U	mg/kg dry	1	0.0138	0.0574	1	EPA 6010C	09/21/10 15:07	JDH	
Cadmium [7440-43-9] ^	0.0110	U	mg/kg dry	1	0.0110	0.0574	1	EPA 6010C	09/21/10 15:07	JDH	
Chromium [7440-47-3] ^	8.20	J	mg/kg dry	1	0.115	0.574	10	EPA 6010C	09/21/10 15:07	JDH	
Cobalt [7440-48-4] ^	0.302	J	mg/kg dry	1	0.115	0.574	10	EPA 6010C	09/21/10 15:07	JDH	
Copper [7440-50-8] ^	1.17	J	mg/kg dry	1	0.218	0.574	10	EPA 6010C	09/21/10 15:07	JDH	
Lead [7439-92-1] ^	4.97	J	mg/kg dry	1	0.138	0.574	10	EPA 6010C	09/21/10 15:07	JDH	
Nickel [7440-02-0] ^	0.657	J	mg/kg dry	1	0.413	2.87	50	EPA 6010C	09/21/10 15:07	JDH	
Selenium [7782-49-2] ^	0.509	JB	mg/kg dry	1	0.115	0.574	10	EPA 6010C	09/21/10 15:07	JDH	J-01
Silver [7440-22-4] ^	0.115	U	mg/kg dry	1	0.115	0.574	10	EPA 6010C	09/21/10 15:07	JDH	
Thallium [7440-28-0] ^	0.462	J	mg/kg dry	1	0.115	0.574	5.5	EPA 6010C	09/21/10 15:07	JDH	
Vanadium [7440-62-2] ^	15.2	J	mg/kg dry	1	0.115	0.574	25	EPA 6010C	09/21/10 15:07	JDH	
Zinc [7440-66-6] ^	2.82	J	mg/kg dry	1	1.26	2.87	10	EPA 6010C	09/21/10 15:07	JDH	

Description: HA-20

Lab Sample ID: C010610-10

Received: 09/17/10 13:30

Matrix: Soil

Sampled: 09/17/10 10:15

Work Order: C010610

Project: Wayne Closed Breakout

Sampled By: Client

% Solids: 87.1

Classical Chemistry Parameters

Analyte [CAS Number]	Results	Flag	Units	DF	MDL	MRL	NC SWSL	Method	Analyzed	By	Notes
Nitrate as N [14797-55-8]	0.14	U	mg/kg dry	1	0.14	11	10000	EPA 9056A	09/18/10 00:32	PEV	
Nitrate/Nitrite as N [ECL-0010]	0.69	U	mg/kg dry	1	0.69	11	NE	CALC 9056A	09/27/10 13:52	PEV	
Nitrite as N [14797-65-0]	0.037	U	mg/kg dry	1	0.037	1.1	1000	EPA 9056A	09/18/10 00:32	PEV	
pH [ECL-0062]	5.6		pH Units	1	1.0	1.0		EPA 9045D	09/21/10 13:56	AJB	Q
Phosphorus [7723-14-0]	71		mg/kg dry	1	2.2	9.2	NE	EPA 365.4	09/24/10 13:26	AJB	
Sulfate as SO4 [14808-79-8]	1.4	U	mg/kg dry	1	1.4	57	250000	EPA 9056A	09/18/10 00:32	PEV	

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I22012 - EPA 5035_MS

Blank (0I22012-BLK1)

Prepared: 09/22/2010 09:42 Analyzed: 09/22/2010 11:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.0002	U	0.001	mg/kg wet							
1,1,1-Trichloroethane	0.0002	U	0.001	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0002	U	0.001	mg/kg wet							
1,1,2-Trichloroethane	0.0002	U	0.001	mg/kg wet							
1,1-Dichloroethane	0.0002	U	0.001	mg/kg wet							
1,1-Dichloroethene	0.0003	U	0.001	mg/kg wet							
1,2,3-Trichloropropane	0.0003	U	0.001	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0008	U	0.001	mg/kg wet							
1,2-Dibromoethane	0.0005	U	0.001	mg/kg wet							
1,2-Dichlorobenzene	0.0003	U	0.001	mg/kg wet							
1,2-Dichloroethane	0.0004	U	0.001	mg/kg wet							
1,2-Dichloropropane	0.0003	U	0.001	mg/kg wet							
1,4-Dichlorobenzene	0.0002	U	0.001	mg/kg wet							
2-Butanone	0.0008	U	0.005	mg/kg wet							
2-Hexanone	0.0008	U	0.005	mg/kg wet							
4-Methyl-2-pentanone	0.0006	U	0.005	mg/kg wet							
Acetone	0.001	U	0.005	mg/kg wet							
Acrylonitrile	0.002	U	0.010	mg/kg wet							
Benzene	0.0002	U	0.001	mg/kg wet							
Bromochloromethane	0.0004	U	0.001	mg/kg wet							
Bromodichloromethane	0.0002	U	0.001	mg/kg wet							
Bromoform	0.0004	U	0.001	mg/kg wet							
Bromomethane	0.0002	U	0.001	mg/kg wet							
Carbon disulfide	0.0004	U	0.005	mg/kg wet							
Carbon tetrachloride	0.0002	U	0.001	mg/kg wet							
Chlorobenzene	0.0002	U	0.001	mg/kg wet							
Chloroethane	0.0002	U	0.001	mg/kg wet							
Chloroform	0.0002	U	0.001	mg/kg wet							
Chloromethane	0.0002	U	0.001	mg/kg wet							
cis-1,2-Dichloroethene	0.0002	U	0.001	mg/kg wet							
cis-1,3-Dichloropropene	0.0001	U	0.001	mg/kg wet							
Dibromochloromethane	0.0004	U	0.001	mg/kg wet							
Dibromomethane	0.0003	U	0.001	mg/kg wet							
Ethylbenzene	0.0002	U	0.001	mg/kg wet							
Iodomethane	0.0004	U	0.005	mg/kg wet							
m,p-Xylenes	0.0004	U	0.002	mg/kg wet							
Methylene chloride	0.0006	U	0.001	mg/kg wet							
o-Xylene	0.0002	U	0.001	mg/kg wet							
Styrene	0.0002	U	0.001	mg/kg wet							
Tetrachloroethene	0.0003	U	0.001	mg/kg wet							
Toluene	0.0002	U	0.001	mg/kg wet							
trans-1,2-Dichloroethene	0.0004	U	0.001	mg/kg wet							
trans-1,3-Dichloropropene	0.0004	U	0.001	mg/kg wet							
trans-1,4-Dichloro-2-butene	0.0004	U	0.001	mg/kg wet							
Trichloroethene	0.0003	U	0.001	mg/kg wet							
Trichlorofluoromethane	0.0003	U	0.001	mg/kg wet							
Vinyl acetate	0.0005	U	0.005	mg/kg wet							
Vinyl chloride	0.0002	U	0.001	mg/kg wet							
Xylenes (Total)	0.0006	U	0.001	mg/kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I22012 - EPA 5035_MS

Blank (0I22012-BLK1) Continued

Prepared: 09/22/2010 09:42 Analyzed: 09/22/2010 11:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	47			ug/L	50.0		94	61-118			
Surrogate: Dibromofluoromethane	46			ug/L	50.0		92	66-114			
Surrogate: Toluene-d8	46			ug/L	50.0		92	63-118			

LCS (0I22012-BS1)

Prepared: 09/22/2010 09:42 Analyzed: 09/22/2010 11:34

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		102	64-133			
Benzene	19		1.0	ug/L	20.0		96	79-129			
Chlorobenzene	19		1.0	ug/L	20.0		96	79-121			
Toluene	19		1.0	ug/L	20.0		95	77-120			
Trichloroethene	20		1.0	ug/L	20.0		99	78-118			
Surrogate: 4-Bromofluorobenzene	48			ug/L	50.0		97	61-118			
Surrogate: Dibromofluoromethane	47			ug/L	50.0		94	66-114			
Surrogate: Toluene-d8	48			ug/L	50.0		96	63-118			

Matrix Spike (0I22012-MS1)

Prepared: 09/22/2010 09:42 Analyzed: 09/22/2010 12:03

Source: C011147-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0	0.30 U	102	64-133			
Benzene	19		1.0	ug/L	20.0	0.17 U	96	79-129			
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	97	79-121			
Toluene	19		1.0	ug/L	20.0	0.47	94	77-120			
Trichloroethene	20		1.0	ug/L	20.0	0.27 U	98	78-118			
Surrogate: 4-Bromofluorobenzene	47			ug/L	50.0		94	61-118			
Surrogate: Dibromofluoromethane	47			ug/L	50.0		94	66-114			
Surrogate: Toluene-d8	47			ug/L	50.0		93	63-118			

Matrix Spike Dup (0I22012-MSD1)

Prepared: 09/22/2010 09:42 Analyzed: 09/22/2010 12:32

Source: C011147-08

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.30 U	95	64-133	7	23	
Benzene	19		1.0	ug/L	20.0	0.17 U	93	79-129	3	23	
Chlorobenzene	19		1.0	ug/L	20.0	0.17 U	94	79-121	3	25	
Toluene	19		1.0	ug/L	20.0	0.47	93	77-120	0.6	23	
Trichloroethene	19		1.0	ug/L	20.0	0.27 U	96	78-118	3	24	
Surrogate: 4-Bromofluorobenzene	46			ug/L	50.0		93	61-118			
Surrogate: Dibromofluoromethane	46			ug/L	50.0		92	66-114			
Surrogate: Toluene-d8	47			ug/L	50.0		94	63-118			

Batch 0I23003 - EPA 5035_MS

Blank (0I23003-BLK1)

Prepared: 09/23/2010 07:51 Analyzed: 09/23/2010 11:38

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I23003 - EPA 5035_MS

Blank (0I23003-BLK1) Continued

Prepared: 09/23/2010 07:51 Analyzed: 09/23/2010 11:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.0002	U	0.001	mg/kg wet							
1,1,1-Trichloroethane	0.0002	U	0.001	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0002	U	0.001	mg/kg wet							
1,1,2-Trichloroethane	0.0002	U	0.001	mg/kg wet							
1,1-Dichloroethane	0.0002	U	0.001	mg/kg wet							
1,1-Dichloroethene	0.0003	U	0.001	mg/kg wet							
1,2,3-Trichloropropane	0.0003	U	0.001	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0008	U	0.001	mg/kg wet							
1,2-Dibromoethane	0.0005	U	0.001	mg/kg wet							
1,2-Dichlorobenzene	0.0003	U	0.001	mg/kg wet							
1,2-Dichloroethane	0.0004	U	0.001	mg/kg wet							
1,2-Dichloropropane	0.0003	U	0.001	mg/kg wet							
1,4-Dichlorobenzene	0.0002	U	0.001	mg/kg wet							
2-Butanone	0.0008	U	0.005	mg/kg wet							
2-Hexanone	0.0008	U	0.005	mg/kg wet							
4-Methyl-2-pentanone	0.0006	U	0.005	mg/kg wet							
Acetone	0.001	U	0.005	mg/kg wet							
Acrylonitrile	0.002	U	0.010	mg/kg wet							
Benzene	0.0002	U	0.001	mg/kg wet							
Bromochloromethane	0.0004	U	0.001	mg/kg wet							
Bromodichloromethane	0.0002	U	0.001	mg/kg wet							
Bromoform	0.0004	U	0.001	mg/kg wet							
Bromomethane	0.0002	U	0.001	mg/kg wet							
Carbon disulfide	0.0004	U	0.005	mg/kg wet							
Carbon tetrachloride	0.0002	U	0.001	mg/kg wet							
Chlorobenzene	0.0002	U	0.001	mg/kg wet							
Chloroethane	0.0002	U	0.001	mg/kg wet							
Chloroform	0.0002	U	0.001	mg/kg wet							
Chloromethane	0.0002	U	0.001	mg/kg wet							
cis-1,2-Dichloroethene	0.0002	U	0.001	mg/kg wet							
cis-1,3-Dichloropropene	0.0001	U	0.001	mg/kg wet							
Dibromochloromethane	0.0004	U	0.001	mg/kg wet							
Dibromomethane	0.0003	U	0.001	mg/kg wet							
Ethylbenzene	0.0002	U	0.001	mg/kg wet							
Iodomethane	0.0004	U	0.005	mg/kg wet							
m,p-Xylenes	0.0004	U	0.002	mg/kg wet							
Methylene chloride	0.0006	U	0.001	mg/kg wet							
o-Xylene	0.0002	U	0.001	mg/kg wet							
Styrene	0.0002	U	0.001	mg/kg wet							
Tetrachloroethene	0.0003	U	0.001	mg/kg wet							
Toluene	0.0002	U	0.001	mg/kg wet							
trans-1,2-Dichloroethene	0.0004	U	0.001	mg/kg wet							
trans-1,3-Dichloropropene	0.0004	U	0.001	mg/kg wet							
trans-1,4-Dichloro-2-butene	0.0004	U	0.001	mg/kg wet							
Trichloroethene	0.0003	U	0.001	mg/kg wet							
Trichlorofluoromethane	0.0003	U	0.001	mg/kg wet							
Vinyl acetate	0.0005	U	0.005	mg/kg wet							
Vinyl chloride	0.0002	U	0.001	mg/kg wet							
Xylenes (Total)	0.0006	U	0.001	mg/kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I23003 - EPA 5035_MS

Blank (0I23003-BLK1) Continued

Prepared: 09/23/2010 07:51 Analyzed: 09/23/2010 11:38

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: 4-Bromofluorobenzene	47			ug/L	50.0		93	61-118			
Surrogate: Dibromofluoromethane	44			ug/L	50.0		88	66-114			
Surrogate: Toluene-d8	46			ug/L	50.0		92	63-118			

LCS (0I23003-BS1)

Prepared: 09/23/2010 07:51 Analyzed: 09/23/2010 12:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	20		1.0	ug/L	20.0		100	64-133			
Benzene	18		1.0	ug/L	20.0		92	79-129			
Chlorobenzene	18		1.0	ug/L	20.0		92	79-121			
Toluene	19		1.0	ug/L	20.0		94	77-120			
Trichloroethene	19		1.0	ug/L	20.0		94	78-118			
Surrogate: 4-Bromofluorobenzene	47			ug/L	50.0		93	61-118			
Surrogate: Dibromofluoromethane	47			ug/L	50.0		93	66-114			
Surrogate: Toluene-d8	46			ug/L	50.0		92	63-118			

Matrix Spike (0I23003-MS1)

Prepared: 09/23/2010 07:51 Analyzed: 09/23/2010 12:35

Source: C011560-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	18		1.0	ug/L	20.0	0.30 U	92	64-133			
Benzene	17		1.0	ug/L	20.0	0.17 U	85	79-129			
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	89	79-121			
Toluene	17		1.0	ug/L	20.0	0.40	84	77-120			
Trichloroethene	18		1.0	ug/L	20.0	0.27 U	88	78-118			
Surrogate: 4-Bromofluorobenzene	46			ug/L	50.0		92	61-118			
Surrogate: Dibromofluoromethane	45			ug/L	50.0		90	66-114			
Surrogate: Toluene-d8	45			ug/L	50.0		90	63-118			

Matrix Spike Dup (0I23003-MSD1)

Prepared: 09/23/2010 07:51 Analyzed: 09/23/2010 13:04

Source: C011560-03

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	19		1.0	ug/L	20.0	0.30 U	95	64-133	3	23	
Benzene	18		1.0	ug/L	20.0	0.17 U	90	79-129	6	23	
Chlorobenzene	18		1.0	ug/L	20.0	0.17 U	91	79-121	2	25	
Toluene	18		1.0	ug/L	20.0	0.40	87	77-120	4	23	
Trichloroethene	18		1.0	ug/L	20.0	0.27 U	91	78-118	3	24	
Surrogate: 4-Bromofluorobenzene	47			ug/L	50.0		94	61-118			
Surrogate: Dibromofluoromethane	45			ug/L	50.0		90	66-114			
Surrogate: Toluene-d8	46			ug/L	50.0		92	63-118			

Batch 0I23023 - EPA 5030B_MS

Blank (0I23023-BLK1)

Prepared: 09/23/2010 12:28 Analyzed: 09/23/2010 16:39

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I23023 - EPA 5030B_MS

Blank (0I23023-BLK1) Continued

Prepared: 09/23/2010 12:28 Analyzed: 09/23/2010 16:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.40	U	1.0	ug/L							
1,1,1-Trichloroethane	0.27	U	1.0	ug/L							
1,1,2,2-Tetrachloroethane	0.33	U	1.0	ug/L							
1,1,2-Trichloroethane	0.37	U	1.0	ug/L							
1,1-Dichloroethane	0.33	U	1.0	ug/L							
1,1-Dichloroethene	0.24	U	1.0	ug/L							
1,2,3-Trichloropropane	0.55	U	1.0	ug/L							
1,2-Dibromo-3-chloropropane	0.48	U	1.0	ug/L							
1,2-Dibromoethane	0.42	U	1.0	ug/L							
1,2-Dichlorobenzene	0.27	U	1.0	ug/L							
1,2-Dichloroethane	0.65	U	1.0	ug/L							
1,2-Dichloropropane	0.20	U	1.0	ug/L							
1,4-Dichlorobenzene	0.38	U	1.0	ug/L							
2-Butanone	1.0	U	5.0	ug/L							
2-Hexanone	0.69	U	5.0	ug/L							
4-Methyl-2-pentanone	1.1	U	5.0	ug/L							
Acetone	1.5	U	5.0	ug/L							
Acrylonitrile	2.1	U	10	ug/L							
Benzene	0.20	U	1.0	ug/L							
Bromochloromethane	0.42	U	1.0	ug/L							
Bromodichloromethane	0.37	U	1.0	ug/L							
Bromoform	0.71	U	1.0	ug/L							
Bromomethane	0.49	U	1.0	ug/L							
Carbon disulfide	0.54	U	5.0	ug/L							
Carbon tetrachloride	0.38	U	1.0	ug/L							
Chlorobenzene	0.27	U	1.0	ug/L							
Chloroethane	0.30	U	1.0	ug/L							
Chloroform	0.20	U	1.0	ug/L							
Chloromethane	0.34	U	1.0	ug/L							
cis-1,2-Dichloroethene	0.36	U	1.0	ug/L							
cis-1,3-Dichloropropene	0.28	U	1.0	ug/L							
Dibromochloromethane	0.32	U	1.0	ug/L							
Dibromomethane	0.37	U	1.0	ug/L							
Ethylbenzene	0.20	U	1.0	ug/L							
Iodomethane	0.52	U	5.0	ug/L							
Methylene chloride	0.53	U	1.0	ug/L							
Styrene	0.26	U	1.0	ug/L							
Tetrachloroethene	0.36	U	1.0	ug/L							
Toluene	0.27	U	1.0	ug/L							
trans-1,2-Dichloroethene	0.34	U	1.0	ug/L							
trans-1,3-Dichloropropene	0.38	U	1.0	ug/L							
trans-1,4-Dichloro-2-butene	0.54	U	1.0	ug/L							
Trichloroethene	0.38	U	1.0	ug/L							
Trichlorofluoromethane	0.28	U	1.0	ug/L							
Vinyl acetate	0.98	U	5.0	ug/L							
Vinyl chloride	0.30	U	1.0	ug/L							
Xylenes (Total)	0.40	U	1.0	ug/L							

Surrogate: 4-Bromofluorobenzene

43

ug/L

50.0

87

51-122

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I23023 - EPA 5030B_MS

Blank (0I23023-BLK1) Continued

Prepared: 09/23/2010 12:28 Analyzed: 09/23/2010 16:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Surrogate: Dibromofluoromethane	45			ug/L	50.0		91	68-117			
Surrogate: Toluene-d8	48			ug/L	50.0		95	69-110			

LCS (0I23023-BS1)

Prepared: 09/23/2010 12:28 Analyzed: 09/23/2010 17:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		104	75-133			
Benzene	23		1.0	ug/L	20.0		116	81-134			
Chlorobenzene	20		1.0	ug/L	20.0		99	83-117			
Toluene	20		1.0	ug/L	20.0		100	71-118			
Trichloroethene	20		1.0	ug/L	20.0		102	75-115			

Matrix Spike (0I23023-MS1)

Prepared: 09/23/2010 12:28 Analyzed: 09/23/2010 17:40

Source: C011560-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.24 U	103	75-133			
Benzene	23		1.0	ug/L	20.0	0.20 U	116	81-134			
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	99	83-117			
Toluene	19		1.0	ug/L	20.0	0.27 U	97	71-118			
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	103	75-115			

Matrix Spike Dup (0I23023-MSD1)

Prepared: 09/23/2010 12:28 Analyzed: 09/23/2010 18:11

Source: C011560-05

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.24 U	105	75-133	2	20	
Benzene	23		1.0	ug/L	20.0	0.20 U	117	81-134	1	17	
Chlorobenzene	20		1.0	ug/L	20.0	0.27 U	98	83-117	0.9	16	
Toluene	20		1.0	ug/L	20.0	0.27 U	99	71-118	1	17	
Trichloroethene	21		1.0	ug/L	20.0	0.38 U	104	75-115	0.3	18	

Batch 0I23025 - EPA 5035_MS

Blank (0I23025-BLK1)

Prepared: 09/23/2010 14:10 Analyzed: 09/24/2010 07:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1,1,2-Tetrachloroethane	0.0002	U	0.001	mg/kg wet							
1,1,1-Trichloroethane	0.0002	U	0.001	mg/kg wet							
1,1,2,2-Tetrachloroethane	0.0002	U	0.001	mg/kg wet							
1,1,2-Trichloroethane	0.0002	U	0.001	mg/kg wet							
1,1-Dichloroethane	0.0002	U	0.001	mg/kg wet							
1,1-Dichloroethene	0.0003	U	0.001	mg/kg wet							
1,2,3-Trichloropropane	0.0003	U	0.001	mg/kg wet							
1,2-Dibromo-3-chloropropane	0.0008	U	0.001	mg/kg wet							
1,2-Dibromoethane	0.0005	U	0.001	mg/kg wet							
1,2-Dichlorobenzene	0.0003	U	0.001	mg/kg wet							

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control
Batch 0I23025 - EPA 5035_MS
Blank (0I23025-BLK1) Continued

Prepared: 09/23/2010 14:10 Analyzed: 09/24/2010 07:06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,2-Dichloroethane	0.0004	U	0.001	mg/kg wet							
1,2-Dichloropropane	0.0003	U	0.001	mg/kg wet							
1,4-Dichlorobenzene	0.0002	U	0.001	mg/kg wet							
2-Butanone	0.0008	U	0.005	mg/kg wet							
2-Hexanone	0.0008	U	0.005	mg/kg wet							
4-Methyl-2-pentanone	0.0006	U	0.005	mg/kg wet							
Acetone	0.001	U	0.005	mg/kg wet							
Acrylonitrile	0.002	U	0.010	mg/kg wet							
Benzene	0.0002	U	0.001	mg/kg wet							
Bromochloromethane	0.0004	U	0.001	mg/kg wet							
Bromodichloromethane	0.0002	U	0.001	mg/kg wet							
Bromoform	0.0004	U	0.001	mg/kg wet							
Bromomethane	0.0002	U	0.001	mg/kg wet							
Carbon disulfide	0.0004	U	0.005	mg/kg wet							
Carbon tetrachloride	0.0002	U	0.001	mg/kg wet							
Chlorobenzene	0.0002	U	0.001	mg/kg wet							
Chloroethane	0.0002	U	0.001	mg/kg wet							
Chloroform	0.0002	U	0.001	mg/kg wet							
Chloromethane	0.0002	U	0.001	mg/kg wet							
cis-1,2-Dichloroethene	0.0002	U	0.001	mg/kg wet							
cis-1,3-Dichloropropene	0.0001	U	0.001	mg/kg wet							
Dibromochloromethane	0.0004	U	0.001	mg/kg wet							
Dibromomethane	0.0003	U	0.001	mg/kg wet							
Ethylbenzene	0.0002	U	0.001	mg/kg wet							
Iodomethane	0.0004	U	0.005	mg/kg wet							
m,p-Xylenes	0.0004	U	0.002	mg/kg wet							
Methylene chloride	0.0006	U	0.001	mg/kg wet							
o-Xylene	0.0002	U	0.001	mg/kg wet							
Styrene	0.0002	U	0.001	mg/kg wet							
Tetrachloroethene	0.0003	U	0.001	mg/kg wet							
Toluene	0.0002	U	0.001	mg/kg wet							
trans-1,2-Dichloroethene	0.0004	U	0.001	mg/kg wet							
trans-1,3-Dichloropropene	0.0004	U	0.001	mg/kg wet							
trans-1,4-Dichloro-2-butene	0.0004	U	0.001	mg/kg wet							
Trichloroethene	0.0003	U	0.001	mg/kg wet							
Trichlorofluoromethane	0.0003	U	0.001	mg/kg wet							
Vinyl acetate	0.0005	U	0.005	mg/kg wet							
Vinyl chloride	0.0002	U	0.001	mg/kg wet							
Xylenes (Total)	0.0006	U	0.001	mg/kg wet							
<i>Surrogate: 4-Bromofluorobenzene</i>	43			ug/L	50.0		85	61-118			
<i>Surrogate: Dibromofluoromethane</i>	46			ug/L	50.0		92	66-114			
<i>Surrogate: Toluene-d8</i>	47			ug/L	50.0		93	63-118			

LCS (0I23025-BS1)

Prepared: 09/23/2010 14:10 Analyzed: 09/24/2010 07:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0		106	64-133			
Benzene	24		1.0	ug/L	20.0		121	79-129			

QUALITY CONTROL

Volatile Organic Compounds by GCMS - Quality Control

Batch 0I23025 - EPA 5035_MS

LCS (0I23025-BS1) Continued

Prepared: 09/23/2010 14:10 Analyzed: 09/24/2010 07:35

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chlorobenzene	21		1.0	ug/L	20.0		105	79-121			
Toluene	20		1.0	ug/L	20.0		102	77-120			
Trichloroethene	22		1.0	ug/L	20.0		112	78-118			
<i>Surrogate: 4-Bromofluorobenzene</i>	44			ug/L	50.0		88	61-118			
<i>Surrogate: Dibromofluoromethane</i>	46			ug/L	50.0		92	66-114			
<i>Surrogate: Toluene-d8</i>	48			ug/L	50.0		97	63-118			

Matrix Spike (0I23025-MS1)

Prepared: 09/23/2010 14:10 Analyzed: 09/24/2010 08:04

Source: C011560-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.30 U	105	64-133			
Benzene	24		1.0	ug/L	20.0	0.17 U	118	79-129			
Chlorobenzene	21		1.0	ug/L	20.0	0.17 U	103	79-121			
Toluene	20		1.0	ug/L	20.0	0.20 U	102	77-120			
Trichloroethene	22		1.0	ug/L	20.0	0.27 U	110	78-118			
<i>Surrogate: 4-Bromofluorobenzene</i>	44			ug/L	50.0		89	61-118			
<i>Surrogate: Dibromofluoromethane</i>	46			ug/L	50.0		92	66-114			
<i>Surrogate: Toluene-d8</i>	48			ug/L	50.0		97	63-118			

Matrix Spike Dup (0I23025-MSD1)

Prepared: 09/23/2010 14:10 Analyzed: 09/24/2010 08:34

Source: C011560-04

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
1,1-Dichloroethene	21		1.0	ug/L	20.0	0.30 U	103	64-133	2	23	
Benzene	23		1.0	ug/L	20.0	0.17 U	115	79-129	3	23	
Chlorobenzene	20		1.0	ug/L	20.0	0.17 U	101	79-121	3	25	
Toluene	20		1.0	ug/L	20.0	0.20 U	98	77-120	4	23	
Trichloroethene	21		1.0	ug/L	20.0	0.27 U	107	78-118	3	24	
<i>Surrogate: 4-Bromofluorobenzene</i>	43			ug/L	50.0		87	61-118			
<i>Surrogate: Dibromofluoromethane</i>	46			ug/L	50.0		92	66-114			
<i>Surrogate: Toluene-d8</i>	48			ug/L	50.0		96	63-118			

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch 0I20010 - EPA 3050B

Blank (0I20010-BLK1)

Prepared: 09/20/2010 10:28 Analyzed: 09/21/2010 14:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.110	U	1.00	mg/kg wet							
Arsenic	0.100	U	0.500	mg/kg wet							
Barium	0.100	U	0.500	mg/kg wet							
Beryllium	0.0120	U	0.0500	mg/kg wet							
Cadmium	0.00960	U	0.0500	mg/kg wet							
Chromium	0.100	U	0.500	mg/kg wet							
Cobalt	0.100	U	0.500	mg/kg wet							

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch OI20010 - EPA 3050B

Blank (OI20010-BLK1) Continued

Prepared: 09/20/2010 10:28 Analyzed: 09/21/2010 14:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Copper	0.190	U	0.500	mg/kg wet							
Lead	0.120	U	0.500	mg/kg wet							
Nickel	0.360	U	2.50	mg/kg wet							
Selenium	0.122	J	0.500	mg/kg wet							
Silver	0.100	U	0.500	mg/kg wet							
Thallium	0.100	U	0.500	mg/kg wet							
Vanadium	0.100	U	0.500	mg/kg wet							
Zinc	1.10	U	2.50	mg/kg wet							

LCS (OI20010-BS1)

Prepared: 09/20/2010 10:28 Analyzed: 09/21/2010 14:20

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	12.5		1.00	mg/kg wet	12.5		100	80-120			
Arsenic	24.8		0.500	mg/kg wet	25.0		99	80-120			
Barium	25.2		0.500	mg/kg wet	25.0		101	80-120			
Beryllium	12.7		0.0500	mg/kg wet	12.5		102	80-120			
Cadmium	12.6		0.0500	mg/kg wet	12.5		100	80-120			
Chromium	25.1		0.500	mg/kg wet	25.0		100	80-120			
Cobalt	25.4		0.500	mg/kg wet	25.0		101	80-120			
Copper	12.7		0.500	mg/kg wet	12.5		101	80-120			
Lead	25.3		0.500	mg/kg wet	25.0		101	80-120			
Nickel	25.3		2.50	mg/kg wet	25.0		101	80-120			
Selenium	24.9	B	0.500	mg/kg wet	25.0		99	80-120			
Silver	12.1		0.500	mg/kg wet	12.5		97	80-120			
Thallium	12.8		0.500	mg/kg wet	12.5		102	80-120			
Vanadium	12.2		0.500	mg/kg wet	12.5		98	80-120			
Zinc	25.7		2.50	mg/kg wet	25.0		103	80-120			

Matrix Spike (OI20010-MS1)

Prepared: 09/20/2010 10:28 Analyzed: 09/21/2010 14:26

Source: C010147-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	10.7		1.07	mg/kg dry	13.6	0.118 U	79	75-125			
Arsenic	27.4		0.537	mg/kg dry	27.1	0.528	99	75-125			
Barium	29.3		0.537	mg/kg dry	27.1	0.544	106	75-125			
Beryllium	13.9		0.0537	mg/kg dry	13.6	0.0129 U	103	75-125			
Cadmium	13.4		0.0537	mg/kg dry	13.6	0.0103 U	99	75-125			
Chromium	29.2		0.537	mg/kg dry	27.1	0.925	104	75-125			
Cobalt	27.9		0.537	mg/kg dry	27.1	0.107 U	103	75-125			
Copper	14.3		0.537	mg/kg dry	13.6	0.454	103	75-125			
Lead	29.6		0.537	mg/kg dry	27.1	0.473	108	75-125			
Nickel	27.4		2.68	mg/kg dry	27.1	0.386 U	101	75-125			
Selenium	27.1	B	0.537	mg/kg dry	27.1	0.207	99	75-125			
Silver	13.0		0.537	mg/kg dry	13.6	0.107 U	96	75-125			
Thallium	14.3		0.537	mg/kg dry	13.6	0.165	104	75-125			
Vanadium	17.6		0.537	mg/kg dry	13.6	2.77	109	75-125			
Zinc	27.8		2.68	mg/kg dry	27.1	1.18 U	103	75-125			

QUALITY CONTROL

Metals by EPA 6000/7000 Series Methods - Quality Control

Batch OI20010 - EPA 3050B
Matrix Spike Dup (OI20010-MSD1)

Prepared: 09/20/2010 10:28 Analyzed: 09/21/2010 14:28

Source: C010147-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	11.0		1.07	mg/kg dry	13.6	0.118 U	81	75-125	3	20	
Arsenic	27.7		0.537	mg/kg dry	27.1	0.528	100	75-125	1	20	
Barium	29.3		0.537	mg/kg dry	27.1	0.544	106	75-125	0.04	20	
Beryllium	13.9		0.0537	mg/kg dry	13.6	0.0129 U	102	75-125	0.6	20	
Cadmium	13.3		0.0537	mg/kg dry	13.6	0.0103 U	98	75-125	0.6	20	
Chromium	35.5		0.537	mg/kg dry	27.1	0.925	128	75-125	20	20	QM-07
Cobalt	28.2		0.537	mg/kg dry	27.1	0.107 U	104	75-125	1	20	
Copper	14.3		0.537	mg/kg dry	13.6	0.454	102	75-125	0.4	20	
Lead	30.1		0.537	mg/kg dry	27.1	0.473	109	75-125	2	20	
Nickel	28.5		2.68	mg/kg dry	27.1	0.386 U	105	75-125	4	20	
Selenium	27.0	B	0.537	mg/kg dry	27.1	0.207	99	75-125	0.3	20	
Silver	12.9		0.537	mg/kg dry	13.6	0.107 U	95	75-125	0.3	20	
Thallium	14.2		0.537	mg/kg dry	13.6	0.165	104	75-125	0.5	20	
Vanadium	17.3		0.537	mg/kg dry	13.6	2.77	107	75-125	2	20	
Zinc	28.3		2.68	mg/kg dry	27.1	1.18 U	104	75-125	2	20	

Post Spike (OI20010-PS1)

Prepared: 09/20/2010 10:28 Analyzed: 09/21/2010 14:30

Source: C010147-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.523		0.0200	mg/L	0.500	-0.00192	105	80-120			
Arsenic	1.06		0.0100	mg/L	1.00	0.00994	105	80-120			
Barium	1.05		0.0100	mg/L	1.00	0.0102	104	80-120			
Beryllium	0.517		0.00100	mg/L	0.500	0.000201	103	80-120			
Cadmium	0.515		0.00100	mg/L	0.500	9.11E-5	103	80-120			
Chromium	1.06		0.0100	mg/L	1.00	0.0174	104	80-120			
Cobalt	1.01		0.0100	mg/L	1.00	0.000998	101	80-120			
Copper	0.542		0.0100	mg/L	0.500	0.00854	107	80-120			
Lead	1.05		0.0100	mg/L	1.00	0.00890	104	80-120			
Nickel	1.03		0.0500	mg/L	1.00	0.00112	102	80-120			
Selenium	1.05	B	0.0100	mg/L	1.00	0.00390	104	80-120			
Silver	0.477		0.0100	mg/L	0.500	-0.00590	97	80-120			
Thallium	0.534		0.0100	mg/L	0.500	0.00310	106	80-120			
Vanadium	0.565		0.0100	mg/L	0.500	0.0521	103	80-120			
Zinc	1.04		0.0500	mg/L	1.00	0.0124	103	80-120			

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch OI21020 - EPA 3005A
Blank (OI21020-BLK1)

Prepared: 09/21/2010 17:01 Analyzed: 09/23/2010 10:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	3.37	J	10.0	ug/L							
Barium	1.00	U	10.0	ug/L							
Beryllium	0.100	U	1.00	ug/L							
Cadmium	0.360	U	1.00	ug/L							

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch OI21020 - EPA 3005A

Blank (OI21020-BLK1) Continued

Prepared: 09/21/2010 17:01 Analyzed: 09/23/2010 10:13

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chromium	1.00	U	10.0	ug/L							
Cobalt	1.10	U	10.0	ug/L							
Copper	1.60	U	10.0	ug/L							
Lead	1.90	U	10.0	ug/L							
Nickel	1.80	U	10.0	ug/L							
Silver	1.90	U	10.0	ug/L							
Vanadium	1.40	U	10.0	ug/L							
Zinc	3.80	U	10.0	ug/L							

LCS (OI21020-BS1)

Prepared: 09/21/2010 17:01 Analyzed: 09/23/2010 10:21

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	486	B	10.0	ug/L	500		97	80-120			
Barium	480		10.0	ug/L	500		96	80-120			
Beryllium	243		1.00	ug/L	250		97	80-120			
Cadmium	243		1.00	ug/L	250		97	80-120			
Chromium	482		10.0	ug/L	500		96	80-120			
Cobalt	475		10.0	ug/L	500		95	80-120			
Copper	247		10.0	ug/L	250		99	80-120			
Lead	486		10.0	ug/L	500		97	80-120			
Nickel	482		10.0	ug/L	500		96	80-120			
Silver	228		10.0	ug/L	250		91	80-120			
Vanadium	236		10.0	ug/L	250		94	80-120			
Zinc	492		10.0	ug/L	500		98	80-120			

Matrix Spike (OI21020-MS1)

Prepared: 09/21/2010 17:01 Analyzed: 09/23/2010 10:29

Source: C010228-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	594	B	10.0	ug/L	500	9.64	117	75-125			
Barium	769		10.0	ug/L	500	187	116	75-125			
Beryllium	295		1.00	ug/L	250	0.337	118	75-125			
Cadmium	289		1.00	ug/L	250	0.360 U	116	75-125			
Chromium	564		10.0	ug/L	500	1.00 U	113	75-125			
Cobalt	679		10.0	ug/L	500	86.1	119	75-125			
Copper	289		10.0	ug/L	250	1.60 U	116	75-125			
Lead	589		10.0	ug/L	500	1.90 U	118	75-125			
Nickel	578		10.0	ug/L	500	6.06	114	75-125			
Silver	284		10.0	ug/L	250	1.90 U	114	75-125			
Vanadium	279		10.0	ug/L	250	1.40 U	112	75-125			
Zinc	582		10.0	ug/L	500	3.95	116	75-125			

Matrix Spike Dup (OI21020-MSD1)

Prepared: 09/21/2010 17:01 Analyzed: 09/23/2010 10:31

Source: C010228-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	581	B	10.0	ug/L	500	9.64	114	75-125	2	20	

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch OI21020 - EPA 3005A

Matrix Spike Dup (OI21020-MSD1) Continued

Prepared: 09/21/2010 17:01 Analyzed: 09/23/2010 10:31

Source: C010228-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Barium	745		10.0	ug/L	500	187	112	75-125	3	20	
Beryllium	284		1.00	ug/L	250	0.337	114	75-125	4	20	
Cadmium	278		1.00	ug/L	250	0.360 U	111	75-125	4	20	
Chromium	556		10.0	ug/L	500	1.00 U	111	75-125	2	20	
Cobalt	660		10.0	ug/L	500	86.1	115	75-125	3	20	
Copper	279		10.0	ug/L	250	1.60 U	112	75-125	4	20	
Lead	570		10.0	ug/L	500	1.90 U	114	75-125	3	20	
Nickel	559		10.0	ug/L	500	6.06	111	75-125	3	20	
Silver	277		10.0	ug/L	250	1.90 U	111	75-125	3	20	
Vanadium	269		10.0	ug/L	250	1.40 U	108	75-125	3	20	
Zinc	560		10.0	ug/L	500	3.95	111	75-125	4	20	

Post Spike (OI21020-PS1)

Prepared: 09/21/2010 17:01 Analyzed: 09/23/2010 10:33

Source: C010228-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Arsenic	1.15	B	0.0100	mg/L	1.00	0.00964	114	80-120			
Barium	1.32		0.0100	mg/L	1.00	0.187	113	80-120			
Beryllium	0.562		0.00100	mg/L	0.500	0.000337	112	80-120			
Cadmium	0.565		0.00100	mg/L	0.500	-2.22E-5	113	80-120			
Chromium	1.12		0.0100	mg/L	1.00	-0.000639	112	80-120			
Cobalt	1.19		0.0100	mg/L	1.00	0.0861	111	80-120			
Copper	0.579		0.0100	mg/L	0.500	-0.000628	116	80-120			
Lead	1.13		0.0100	mg/L	1.00	-0.000932	114	80-120			
Nickel	1.12		0.0100	mg/L	1.00	0.00606	111	80-120			
Silver	0.521		0.0100	mg/L	0.500	-0.000531	104	80-120			
Vanadium	0.551		0.0100	mg/L	0.500	0.000458	110	80-120			
Zinc	1.13		0.0100	mg/L	1.00	0.00395	113	80-120			

Batch OI21021 - EPA 3005A

Blank (OI21021-BLK1)

Prepared: 09/21/2010 10:05 Analyzed: 09/27/2010 09:42

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	0.220	U	2.00	ug/L							
Selenium	0.830	U	1.00	ug/L							
Thallium	0.110	U	1.00	ug/L							

LCS (OI21021-BS1)

Prepared: 09/21/2010 10:05 Analyzed: 09/27/2010 09:45

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	27.6		2.00	ug/L	25.0		110	80-120			
Selenium	27.0		1.00	ug/L	25.0		108	80-120			
Thallium	28.7		1.00	ug/L	25.0		115	80-120			

Matrix Spike (OI21021-MS1)

Prepared: 09/21/2010 10:05 Analyzed: 09/27/2010 09:52

QUALITY CONTROL

Metals (total recoverable) by EPA 6000/7000 Series Methods - Quality Control

Batch 0I21021 - EPA 3005A

Matrix Spike (0I21021-MS1) Continued

Prepared: 09/21/2010 10:05 Analyzed: 09/27/2010 09:52

Source: C010610-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.6		2.00	ug/L	25.0	0.336	105	75-125			
Selenium	27.6		1.00	ug/L	25.0	2.94	99	75-125			
Thallium	26.2		1.00	ug/L	25.0	0.110 U	105	75-125			

Matrix Spike Dup (0I21021-MSD1)

Prepared: 09/21/2010 10:05 Analyzed: 09/27/2010 09:56

Source: C010610-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	26.7		2.00	ug/L	25.0	0.336	106	75-125	0.4	20	
Selenium	27.4		1.00	ug/L	25.0	2.94	98	75-125	0.8	20	
Thallium	26.2		1.00	ug/L	25.0	0.110 U	105	75-125	0.03	20	

Post Spike (0I21021-PS1)

Prepared: 09/21/2010 10:05 Analyzed: 09/27/2010 10:04

Source: C010610-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Antimony	28.1		2.00	ug/L	25.0	0.336	111	80-120			
Selenium	28.1		1.00	ug/L	25.0	2.94	101	80-120			
Thallium	26.3		1.00	ug/L	25.0	-0.0650	106	80-120			

Classical Chemistry Parameters - Quality Control

Batch 0I17027 - WETS-88 Soil Leaching

Blank (0I17027-BLK1)

Prepared: 09/17/2010 18:20 Analyzed: 09/17/2010 22:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	0.12	U	10	mg/kg wet							
Nitrite as N	0.032	U	1.0	mg/kg wet							
Sulfate as SO4	1.2	U	50	mg/kg wet							

LCS (0I17027-BS1)

Prepared: 09/17/2010 18:14 Analyzed: 09/17/2010 22:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	18		10	mg/kg wet	20.0		92	90-110			
Nitrite as N	3.9		1.0	mg/kg wet	3.99		98	90-110			
Sulfate as SO4	180		50	mg/kg wet	200		92	90-110			

Matrix Spike (0I17027-MS1)

Prepared: 09/17/2010 18:20 Analyzed: 09/17/2010 22:46

Source: C010610-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	21		12	mg/kg dry	22.8	1.9	85	80-120			
Nitrite as N	4.3		1.2	mg/kg dry	4.56	0.037 U	94	80-120			
Sulfate as SO4	210		58	mg/kg dry	228	21	83	80-120			

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0I17027 - WETS-88 Soil Leaching

Matrix Spike Dup (0I17027-MSD1)

Prepared: 09/17/2010 18:20 Analyzed: 09/17/2010 23:04

Source: C010610-06

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate as N	21		12	mg/kg dry	22.1	1.9	86	80-120	2	15	
Nitrite as N	4.2		1.2	mg/kg dry	4.42	0.037 U	95	80-120	2	15	
Sulfate as SO4	200		58	mg/kg dry	221	21	82	80-120	3	15	

Batch 0I17029 - NO PREP

Blank (0I17029-BLK1)

Prepared: 09/17/2010 18:44 Analyzed: 09/17/2010 19:39

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	5.6	U	100	ug/L							

LCS (0I17029-BS1)

Prepared: 09/17/2010 18:44 Analyzed: 09/17/2010 19:41

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00		101	80-120			

Matrix Spike (0I17029-MS1)

Prepared: 09/17/2010 18:44 Analyzed: 09/17/2010 19:47

Source: C009115-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00	0.025	102	80-120			

Matrix Spike Dup (0I17029-MSD1)

Prepared: 09/17/2010 18:44 Analyzed: 09/17/2010 19:48

Source: C009115-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrite as N	1.0		0.10	mg/L	1.00	0.025	101	80-120	0.8	25	

Batch 0I17030 - NO PREP

Blank (0I17030-BLK1)

Prepared & Analyzed: 09/17/2010 20:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	2000	U	2000	ug/L							

LCS (0I17030-BS1)

Prepared & Analyzed: 09/17/2010 20:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	190		2.0	mg/L	198		98	85-115			

Duplicate (0I17030-DUP1)

Prepared & Analyzed: 09/17/2010 20:56

Source: C010610-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Biochemical Oxygen Demand	6000	U	6000	ug/L		6000 U			25		B-01

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0I17030 - NO PREP

Batch 0I20003 - NO PREP

Blank (0I20003-BLK1)

Prepared: 09/20/2010 07:40 Analyzed: 09/20/2010 14:29

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	120	U	5000	ug/L							

LCS (0I20003-BS1)

Prepared: 09/20/2010 07:40 Analyzed: 09/20/2010 14:47

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	46		5.0	mg/L	50.0		92	80-120			

Matrix Spike (0I20003-MS1)

Prepared: 09/20/2010 07:40 Analyzed: 09/20/2010 15:05

Source: C010227-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	19		5.0	mg/L	20.0	2.3	86	80-120			

Matrix Spike (0I20003-MS3)

Prepared: 09/20/2010 07:40 Analyzed: 09/20/2010 16:15

Source: C010228-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	32		5.0	mg/L	20.0	14	92	80-120			

Matrix Spike Dup (0I20003-MSD1)

Prepared: 09/20/2010 07:40 Analyzed: 09/20/2010 15:22

Source: C010227-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	19		5.0	mg/L	20.0	2.3	85	80-120	1	15	

Matrix Spike Dup (0I20003-MSD3)

Prepared: 09/20/2010 07:40 Analyzed: 09/20/2010 17:08

Source: C010228-02

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Sulfate as SO4	32		5.0	mg/L	20.0	14	92	80-120	0.07	15	

Batch 0I21019 - Same

Blank (0I21019-BLK1)

Prepared: 09/21/2010 13:33 Analyzed: 09/21/2010 17:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	2800	U	10000	ug/L							

LCS (0I21019-BS1)

Prepared: 09/21/2010 13:33 Analyzed: 09/21/2010 17:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	520000		10000	ug/L	500000		103	90-110			

Matrix Spike (0I21019-MS1)

Prepared: 09/21/2010 13:33 Analyzed: 09/21/2010 17:27

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0I21019 - Same

Matrix Spike (0I21019-MS1) Continued

Prepared: 09/21/2010 13:33 Analyzed: 09/21/2010 17:27

Source: C010407-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	580000		10000	ug/L	500000	81000	101	90-110			

Matrix Spike Dup (0I21019-MSD1)

Prepared: 09/21/2010 13:33 Analyzed: 09/21/2010 17:27

Source: C010407-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	590000		10000	ug/L	500000	81000	102	90-110	0.7	10	

Batch 0I21025 - Same

LCS (0I21025-BS1)

Prepared & Analyzed: 09/21/2010 13:56

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
pH	7.0		1.0	pH Units	7.01		101	99-101			

Duplicate (0I21025-DUP1)

Prepared: 09/21/2010 13:15 Analyzed: 09/21/2010 13:56

Source: C010610-09

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
pH	5.6		1.0	pH Units		5.6		0.5	25		

Batch 0I21036 - Same

Blank (0I21036-BLK1)

Prepared: 09/22/2010 10:12 Analyzed: 09/22/2010 19:12

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	25	U	100	ug/L							

LCS (0I21036-BS1)

Prepared: 09/22/2010 10:12 Analyzed: 09/22/2010 19:14

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.7		0.10	mg/L	1.60		103	80-120			

Matrix Spike (0I21036-MS1)

Prepared: 09/22/2010 10:12 Analyzed: 09/22/2010 19:21

Source: C010510-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	26	D	0.10	mg/L	0.640	25	84	80-120			QM-17

Matrix Spike Dup (0I21036-MSD1)

Prepared: 09/22/2010 10:12 Analyzed: 09/22/2010 19:23

Source: C010510-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	26	D	0.10	mg/L	0.640	25	140	80-120	1	25	QM-17

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch OI22003 - NO PREP

Blank (OI22003-BLK1)

Prepared & Analyzed: 09/22/2010 08:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	1000	U	1000	ug/L							

LCS (OI22003-BS1)

Prepared & Analyzed: 09/22/2010 08:15

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	90		1.0	mg/L	80.0		112	90-122			

Duplicate (OI22003-DUP1)

Prepared & Analyzed: 09/22/2010 08:15

Source: C010407-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Total Suspended Solids	13000		1000	ug/L		16000			18	25	

Batch OI23007 - Same

Blank (OI23007-BLK1)

Prepared: 09/23/2010 08:31 Analyzed: 09/24/2010 13:10

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	1.9	U	8.0	mg/kg wet							

LCS (OI23007-BS1)

Prepared: 09/23/2010 08:31 Analyzed: 09/24/2010 13:11

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	120		8.0	mg/kg wet	127		95	80-120			

Matrix Spike (OI23007-MS1)

Prepared: 09/23/2010 08:31 Analyzed: 09/24/2010 14:38

Source: C009406-01RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	270	D	16	mg/kg wet	48.8	220	105	80-120			

Matrix Spike Dup (OI23007-MSD1)

Prepared: 09/23/2010 08:31 Analyzed: 09/24/2010 14:39

Source: C009406-01RE1

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Phosphorus	260	D	16	mg/kg wet	49.9	220	98	80-120	1	25	

Batch OI27002 - NO PREP

Blank (OI27002-BLK1)

Prepared: 09/27/2010 06:34 Analyzed: 09/27/2010 08:24

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	25	U	100	ug/L							

LCS (OI27002-BS1)

Prepared: 09/27/2010 06:34 Analyzed: 09/27/2010 08:27

QUALITY CONTROL

Classical Chemistry Parameters - Quality Control

Batch 0I27002 - NO PREP

LCS (0I27002-BS1) Continued

Prepared: 09/27/2010 06:34 Analyzed: 09/27/2010 08:27

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	1.2		0.10	mg/L	1.25		97	80-120			

Matrix Spike (0I27002-MS1)

Prepared: 09/27/2010 06:34 Analyzed: 09/27/2010 08:35

Source: C010610-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.65		0.10	mg/L	0.513	0.088	109	80-120			

Matrix Spike Dup (0I27002-MSD1)

Prepared: 09/27/2010 06:34 Analyzed: 09/27/2010 08:37

Source: C010610-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Nitrate/Nitrite as N	0.64		0.10	mg/L	0.513	0.088	108	80-120	1	25	

Batch 0I28009 - Same

Blank (0I28009-BLK1)

Prepared: 09/28/2010 12:03 Analyzed: 09/28/2010 17:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	2800	U	10000	ug/L							

LCS (0I28009-BS1)

Prepared: 09/28/2010 12:03 Analyzed: 09/28/2010 17:16

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	500000		10000	ug/L	500000		99	90-110			

Matrix Spike (0I28009-MS1)

Prepared: 09/28/2010 12:03 Analyzed: 09/28/2010 17:16

Source: C010215-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	14000000		200000	ug/L	1.00E7	4400000	97	90-110			

Matrix Spike Dup (0I28009-MSD1)

Prepared: 09/28/2010 12:03 Analyzed: 09/28/2010 17:16

Source: C010215-01

Analyte	Result	Flag	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Chemical Oxygen Demand	14000000		200000	ug/L	1.00E7	4400000	99	90-110	2	10	

FLAGS/NOTES AND DEFINITIONS

- B The analyte was detected in the associated method blank.
- D The sample was analyzed at dilution.
- J The reported value is between the laboratory method detection limit (MDL) and the laboratory method reporting limit (MRL), adjusted for actual sample preparation data and moisture content, where applicable.
- U The analyte was analyzed for but not detected to the level shown, adjusted for actual sample preparation data and moisture content, where applicable.
- E The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate.
- MRL Method Reporting Limit. The MRL is roughly equivalent to the practical quantitation limit (PQL) and is based on the low point of the calibration curve, when applicable, sample preparation factor, dilution factor, and, in the case of soil samples, moisture content.
- B-01 The sample dilutions set-up for the analysis did not meet the oxygen depletion criteria of at least 2 mg/l dissolved oxygen depletion. Therefore the reported result is an estimated value only.
- J-01 Result is estimated due to positive results in the associated method blank.
- Q Analysis performed outside of method - specified holding time.
- QB-01 The method blank had a positive result for the analyte; however, the concentration in the method blank is less than 10% of the sample result, which minimizes the impact of the deviation.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- QM-17 Matrix spike recovery was outside acceptance limits due to high concentrations of analyte in source sample.



ENVIRONMENTAL CONSERVATION LABORATORIES CHAIN-OF-CUSTODY RECORD

10775 Central Point Dr.
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4810 Executive Park Court, Suite 211
Jacksonville, FL 32216-8069
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Carri Name Municipal Engineering Services (MUS01)	Project Number/ G10114 - Closed											
Address P.O. Box 97	Project Name/Desc Wayne Closed Breakout											
City/Zip Gaines, NC 27529	PO # / Billing Info											
Tel (919) 772-5393	Fax (919) 772-1176	Reporting Contact Jonathan Pfohl										
Sampler(s) Name, Affiliation (Print)		Billing Contact Accounts Payable										
Sampler(s) Signature		Site Location / Time Zone										

Item #	Sample ID (Field Identification)	Collection Date	Collection Time	Camp / Grid	Matrix (see codes)	Total # of Containers	Preservation (See Codes) (Combine as necessary)										Sample Comments
							Note: Rush requests subject to acceptance by the facility										
MW-2		9/16/10	8:35	GW	8		X	X	X	X	X	X	X	X	X	X	
MW-3		9/16/10	12:15	GW	8		X	X	X	X	X	X	X	X	X	X	
MW-5		9/16/10	1:05	GW	8		X	X	X	X	X	X	X	X	X	X	
MW-7		9/16/10	4:50	GW	8		X	X	X	X	X	X	X	X	X	X	
SW-1		9/16/10	2:12	GW	8		X	X	X	X	X	X	X	X	X	X	
SW-2		Def		GW	8		X	X	X	X	X	X	X	X	X	X	
SW near MW-3				GW	8		X	X	X	X	X	X	X	X	X	X	
HA-1		9/16/10	6:35	SO	4		X	X	X	X	X	X	X	X	X	X	
HA-2			11:55	SO	4		X	X	X	X	X	X	X	X	X	X	
HA-B6			9:50	SO	4		X	X	X	X	X	X	X	X	X	X	
HA-				SO	4		X	X	X	X	X	X	X	X	X	X	
HA-				SO	4		X	X	X	X	X	X	X	X	X	X	
																	<.. Total # of Containers

Sample Prepared By <i>John</i>	Date/Time 9/14/10	Received By <i>John</i>	Date/Time 9/16/10
Comments/Special Reporting Requirements Chemical(s) & Parameter(s) Sampled Blue White C-H-1 BP-331-24°C			
Relinquished By •	Date/Time 1:30	Received By •	Date/Time
Relinquished By •	Date/Time 1:30	Received By •	Date/Time
Relinquished By •	Date/Time 1:30	Received By •	Date/Time

Note: All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.

Preservation: H2O Water Wk Water/Soil DW Drinking Water SE Sediment SW Surface Water Air O-Other (detail in comments)

Matrx: GW Groundwater SO Soil DW Drinking Water SE Sediment SW Surface Water Air H-HCl N-HNO3 S-H2SO4 NO-NaOH O-Other (detail in comments)

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H

Project Number: G10114 - Closed
Project Name/Date: Wayne Closed Breakout
PO # / Billing Info:

Address: P.O. Box 97
City/Zip: Garner, NC 27559
Phone: (919) 772-5393

Sampler(s) Name, Affiliation (Print):
Signature:

Reporting Contact: Jonathan Pfohl
Bills Payable

Site Location / Time Zone

Item #	Sample ID (Field Identifier)	Collection Date	Collection Time	Comp / Grab	Matrix (item codes)	Total # of Containers	Preservation (See Codes) (Combine as necessary)		Sample Comments
MW-2		9/16/00	3:35	GW	8	X			
MW-3			12:10	GW	8	X			
MW-5			1:05	GW	8	X			
MW-7			4:50	GW	8	X			
SW-1			2:12	GW	8	X			
SW-2				GW	8	X			
SW near MW-3				GW	8	X			
HA-1			6:35	SO	4				
HA-2			11:15	SO	4				
HA-B6			4:50	SO	4				
HA-				SO	4				
HA-				SO	4				
						<... Total # of Containers			
Sample Prepared By:	Date/Time:	Relinquished By:		Date/Time:	Received By:		Date/Time:	Comments/Special Reporting Requirements	
	9/14/00			9/16/00 10 AM			7/17/00 1:30 PM		
Relinquished By:		Relinquished By:		Received By:		Received By:		Condition Upon Receipt	
								✓ Acceptable Unacceptable	
Cooler # & Temp on Receipt:		Cooler # & Temp on Receipt:		Cooler # & Temp on Receipt:		Cooler # & Temp on Receipt:		Cooler # & Temp on Receipt:	
BLUR -1.8°C		BLUR -1.8°C		BLUR -1.8°C		BLUR -1.8°C		BLUR -1.8°C	

Matrix : GW-Groundwater SO-Soil DW-Drinking Water SE-Sediment SW-Surface Water A-H-Air O-Ozone (detail in comments)

Preservation: I-Ice H-HCl N-NH3 S-H2SO4 NO-NaOH O-Other (detail in comments)

Note : All samples submitted to ENCO Labs are in accordance with the terms and conditions listed on the reverse of this form, unless prior written agreements exist.



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ES-CHAIN-OE-CUSTODY RECORD

102-A Woodwinds Industrial Ct.
Cary, NC 27511
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LABOR

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ERVATION

4810 Executive
Jacksonville, FL
(904) 296-3007

(04) 236-3007

Preservation: Iodine-HCl-NaNO₂-NaOH (detailed in comments). **Storage:** After addition of preservative, store at -20°C until analysis.